

AUDIO-VIDEO STEREO RECEIVER

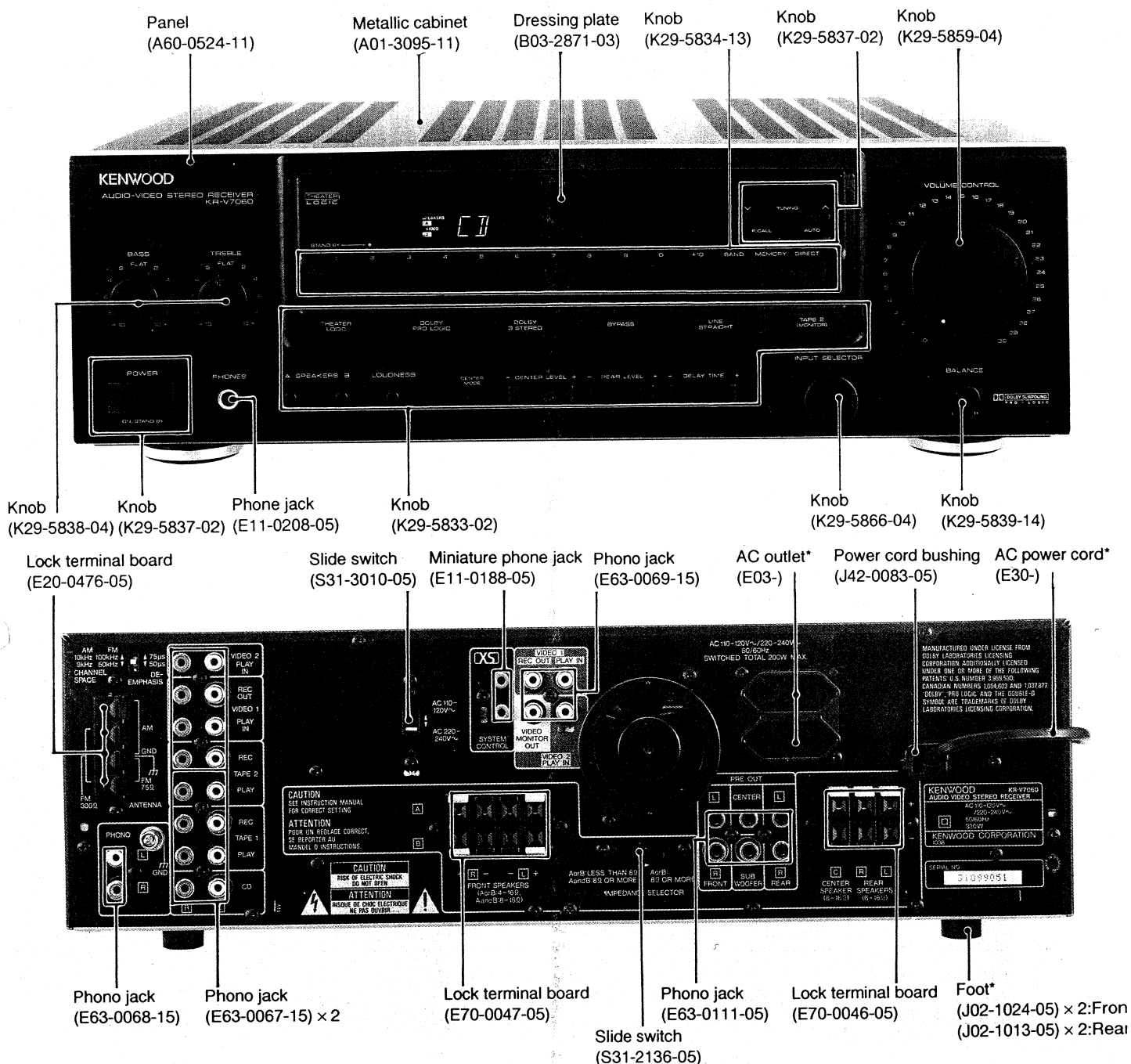
KR-V7060/V8060

SERVICE MANUAL

KENWOOD

© 1993-12 PRINTED IN JAPAN
B51-4843-00(S) 3576

KR-V7060 M type (Except E,T)



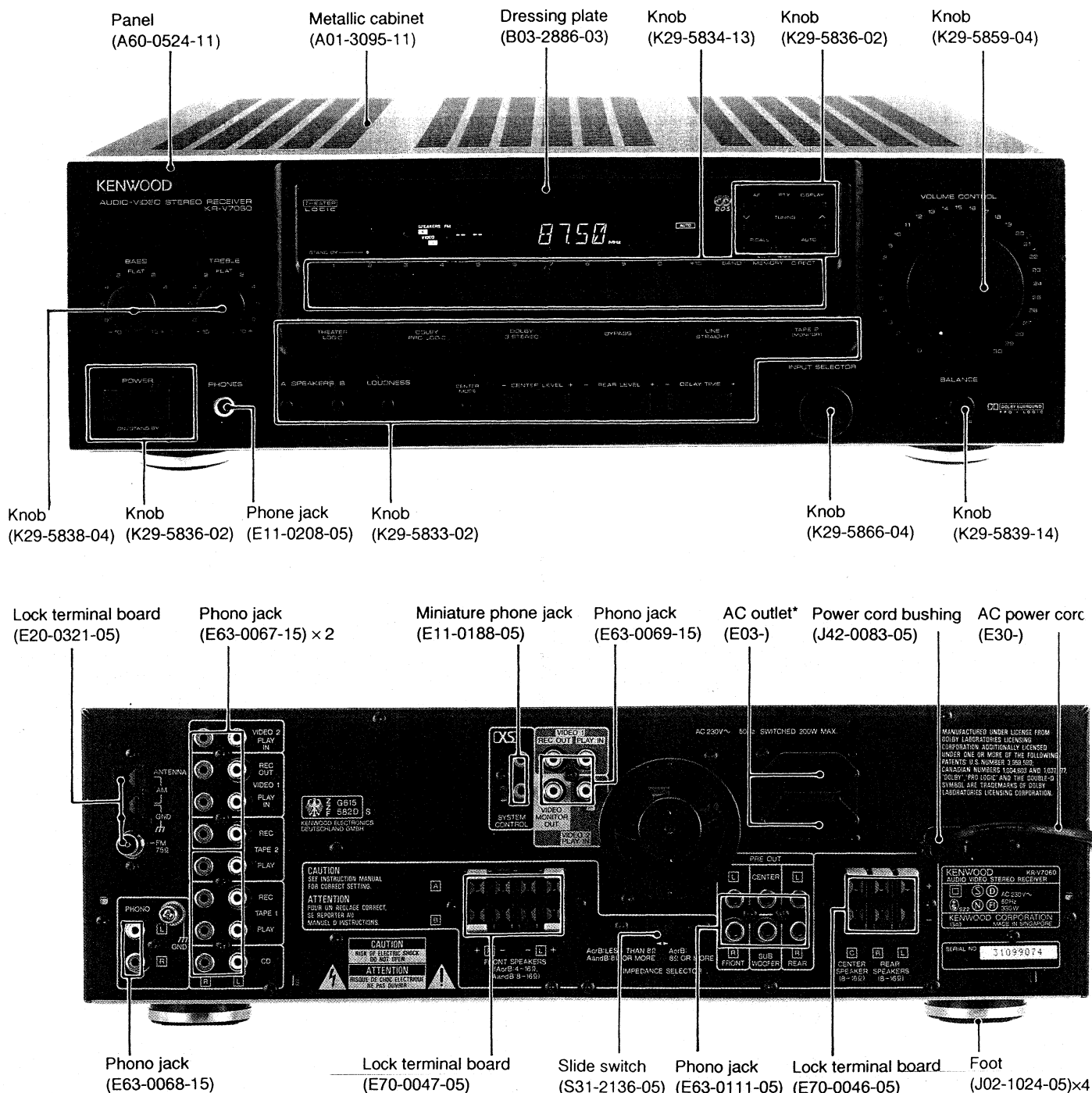
Please refer to the KR-694/V5560/V6060 (B51-4842-00) service manual for explanations of microcomputer and other circuits.

KR-V7060/V8060

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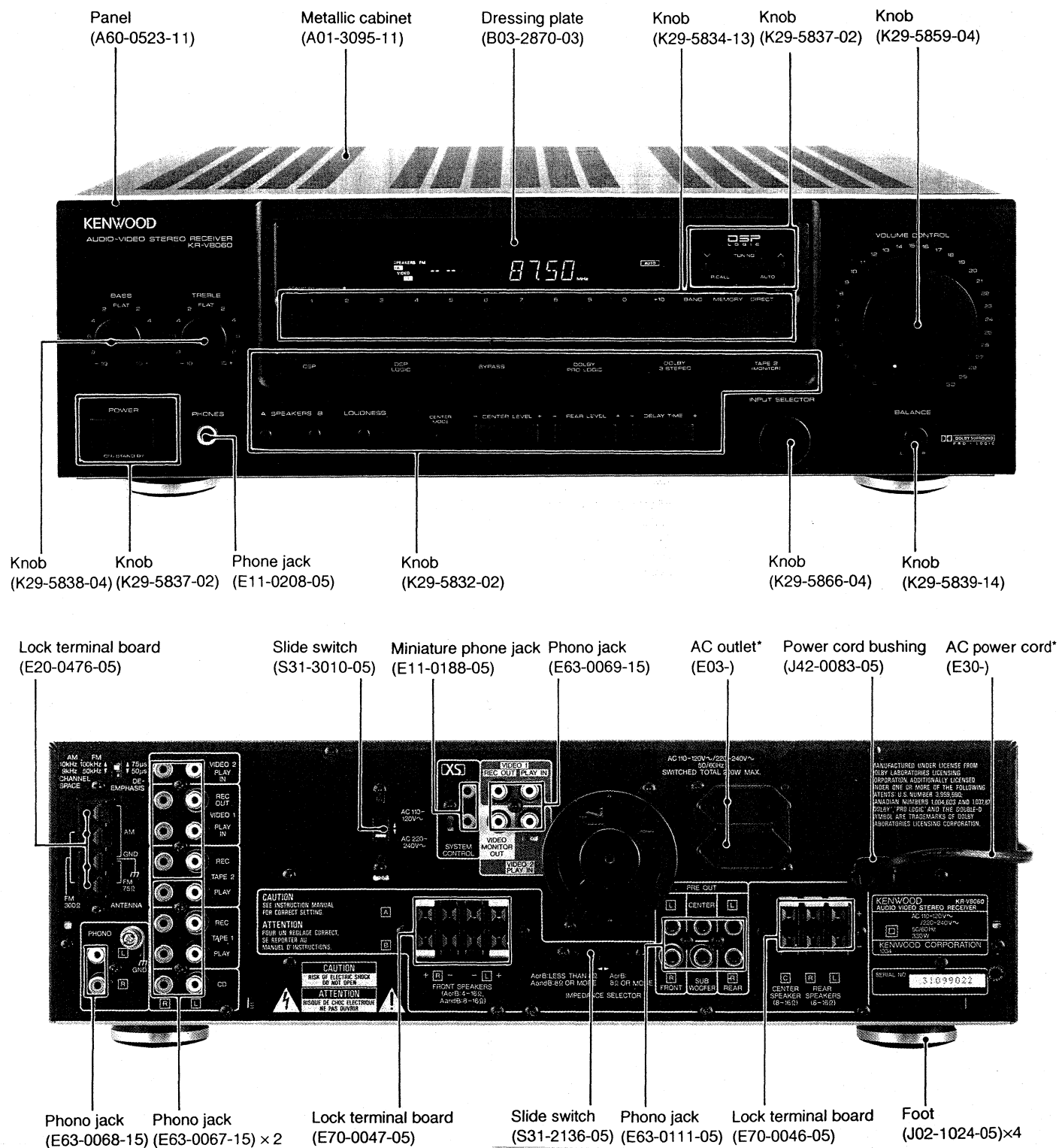
KR-V7060 (E,T type)



*Refer to parts list on page 41.

KR-V7060/V8060

KR-V8060



*Refer to parts list on page 41.

KR-V7060/V8060

REMOTE CONTROL UNIT

KR-V7060(Except for E.T type)

Cassette deck operation keys
These keys are used to operate TAPE A and TAPE B decks.
REC/ARM:
When recording on TAPE B, puts the deck in record-pause mode after leaving a non-recorded blank of 4 seconds.

CD player operation keys
DISC: This key is used as the disc selector of a multi-CD player. Each press selects a different disc.

INPUT key
Selects the input sources.
TAPE 2 (MONITOR) key
Press to monitor the source being recorded.

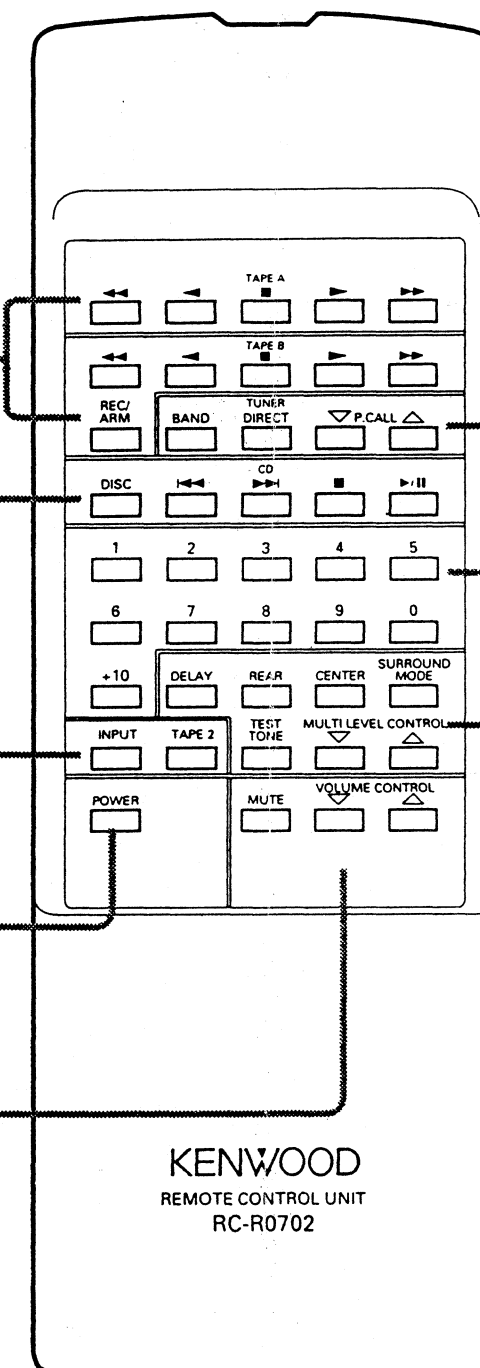
MUTE key
Mutes the sound temporarily.
VOLUME CONTROL keys
Adjust the listening volume. The VOLUME CONTROL knob of the main unit turns when these keys are operated. In this case, the indicator on the knob blinks at high speed.

TUNER operation keys
BAND:
Selects the broadcast band.
P.CALL:
Recalls preset stations.
DIRECT:
Used in combination with the numeric keys for direct tuning of stations.

Numeric keys
When the CD input is selected, function as the numeric keys of the CD player. When the TUNER input is selected, function as the numeric keys of the tuner.

SURROUND keys
SURROUND MODE:
Switches the surround modes.
TEST TONE:
Switches the test tone ON and OFF.
CENTER + MULTI LEVEL CONTROL:
This combination adjusts the center level.
REAR + MULTI LEVEL CONTROL:
Adjusts the rear level.
DELAY + MULTI LEVEL CONTROL:
Adjusts the delay time.

POWER key



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REMOTE CONTROL UNIT

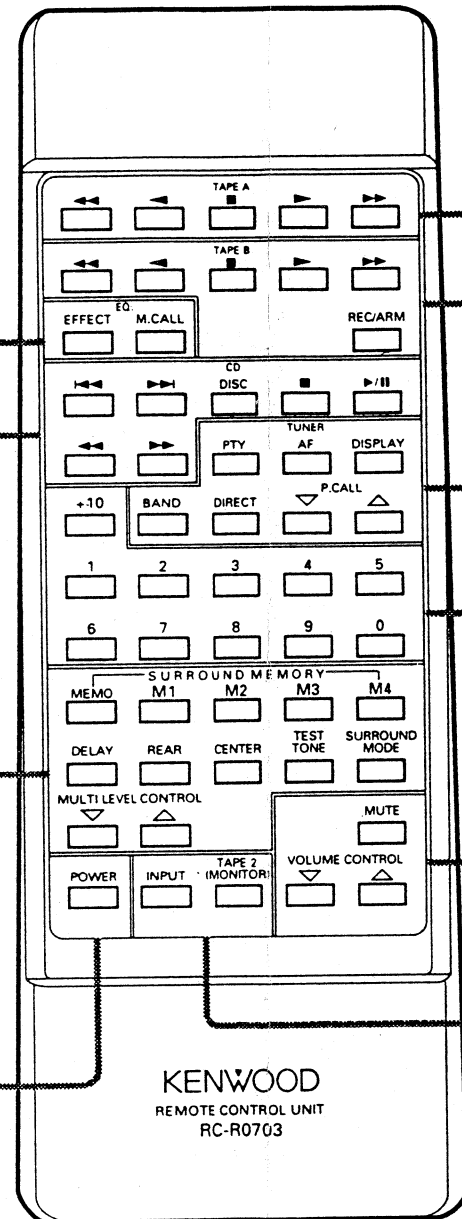
KR-V7060 (E,T type)

Graphic equalizer operation keys
EFFECT:
 Turns the graphic equalizer ON and OFF.
M.CALL:
 Recalls the preset equalizer curves from memory.

CD player operation keys
DISC: This key is used as the disc selector of a multi-CD player. Each press selects a different disc.

SURROUND keys
SURROUND MEMORY:
 Surround play data can be registered under these keys.
SURROUND MODE:
 Switches the surround modes
TEST TONE:
 Switches the test tone ON and OFF.
CENTER + MULTI LEVEL CONTROL:
 This combination adjusts the center level.
REAR + MULTI LEVEL CONTROL:
 Adjusts the rear level.
DELAY + MULTI LEVEL CONTROL:
 Adjusts the delay time.

POWER key



Cassette deck operation keys
 These keys are used to operate TAPE A and TAPE B decks.
REC/ARM key
 When recording on TAPE B, puts the deck in record-pause mode after leaving a non-recorded blank of 4 seconds.

TUNER operation keys
BAND:
 Selects the broadcast band.
P.CALL:
 Recalls preset stations.
DIRECT:
 Used in combination with the numeric keys for direct tuning of stations.
PTY/AF/DISPLAY:
 Used in reception of RDS broadcasting.

Numeric keys
 When the CD input is selected, function as the numeric keys of the CD player. When the TUNER input is selected, function as the numeric keys of the tuner.

MUTE key
 Mutes the sound temporarily.
VOLUME CONTROL keys
 Adjust the listening volume. The VOLUME CONTROL knob of the main unit turns when these keys are operated. In this case, the indicator on the knob blinks at high speed.

INPUT key
 Selects the input sources.
TAPE 2 (MONITOR) key
 Press to monitor the source being recorded.

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REMOTE CONTROL UNIT

KR-V8060

Display
 Displays the component being controlled.

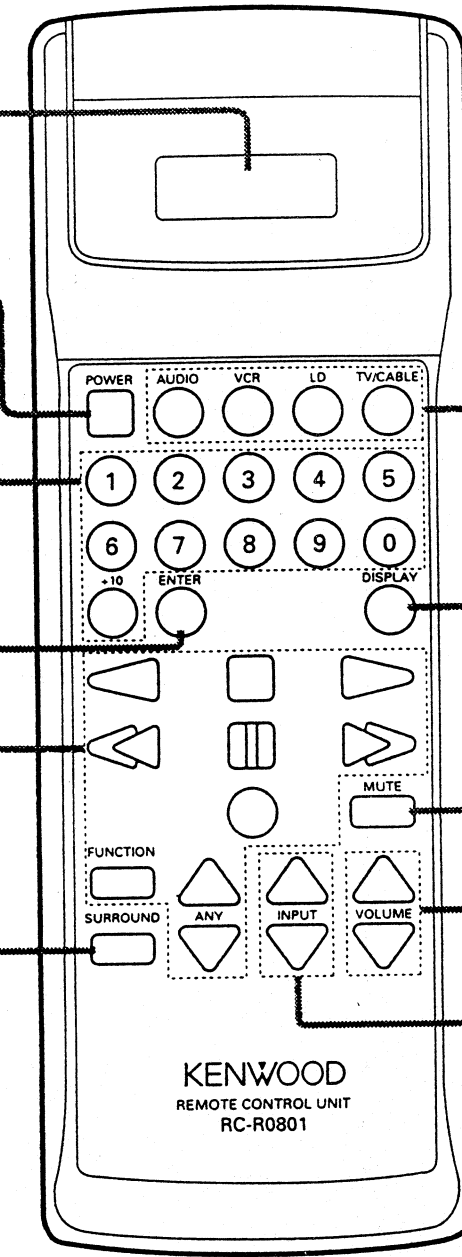
POWER key
 Press to turn the power of the controlled component ON and OFF.

Numeric keys
 Use as the numeric keys of the controlled component.

ENTER key
 Press when entering manufacturer codes.

Operation keys
 The contents of operations vary depending on the controlled components.

SURROUND key
 Press to select the surround mode of the receiver unit.



Controlled component select keys
 Press to select the component controlled by the remote control unit.

AUDIO key
 Press when remote controlling audio components from KENWOOD.
 AUDIO → CD
 TAP B ← TAP A ←

VCR key
 Press when remote controlling video decks.
 VCR 1 → VCR 2

LD key
 Press when remote controlling an LD player.

TV/CABLE key
 Press when remote controlling a TV or cable TV.
 TV → CABLE

DISPLAY key
 Press to display the components which can be remote controlled currently for 5 seconds.

MUTE key
 Press to mute sound temporarily.

VOLUME keys
 Press to adjust the volume. When these keys are operated, the VOLUME CONTROL knob on the receiver unit rotates and the indicator on the knob blinks at a high speed.

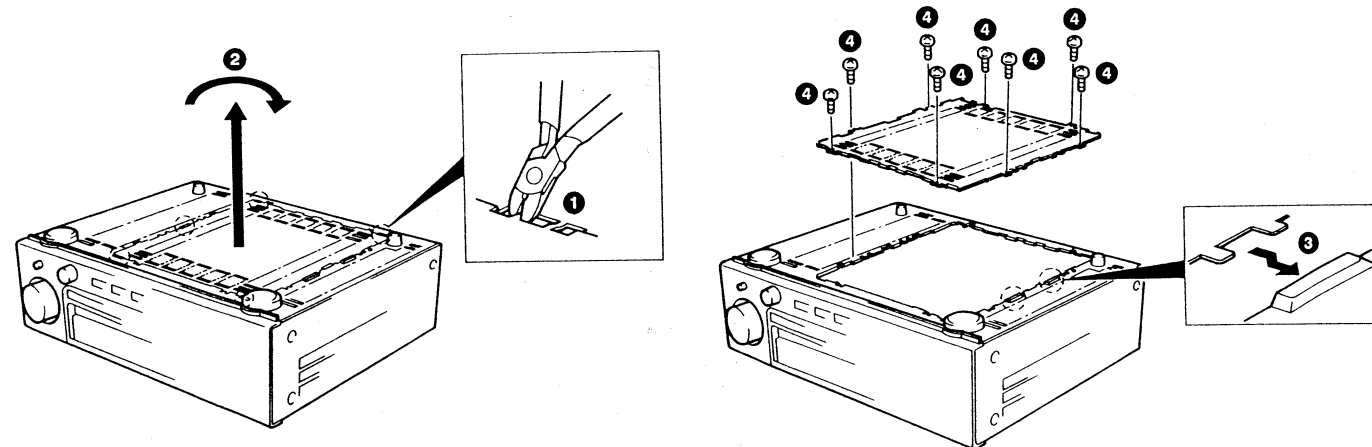
INPUT keys
 Press to select the inputs.

KR-V7060/V8060

DISASSEMBLY FOR REPAIR

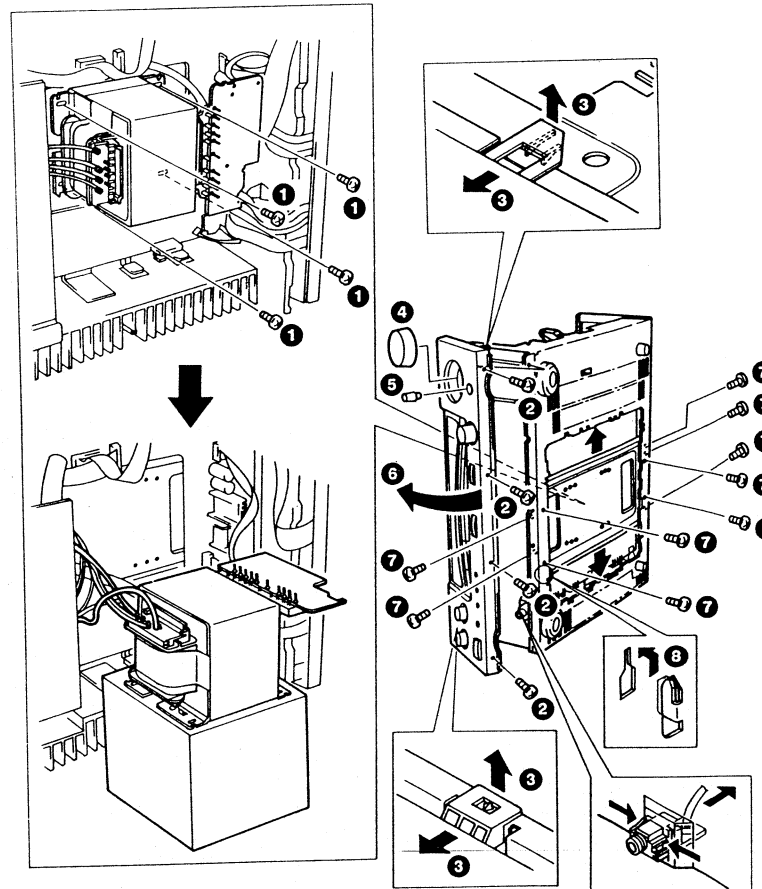
How to remove the bottom plate

1. Cut the 6 bottom plate tabs (1).
2. After effecting repairs, rotate the bottom plate 180° (2) and set the projections as shown in the diagram (3).
3. Set the 8 screws (4).



How to remove the front panel and move the transformer frame

1. Remove the 4 power supply transformer screws (1) and place the transformer atop an appropriate box or stand.
2. Remove the 4 screws (2) from the bottom of the front panel, remove the hooks (3; there are 4 on top and 2 on the side), remove the VOL CONTROL knob (4) and the BALANCE knob (5), and remove the front panel in the direction of arrow (6).
3. Remove the 9 screws (7) holding the transformer frame, and cut the 4 tabs (8). Move the transformer frame in the direction of the arrow.



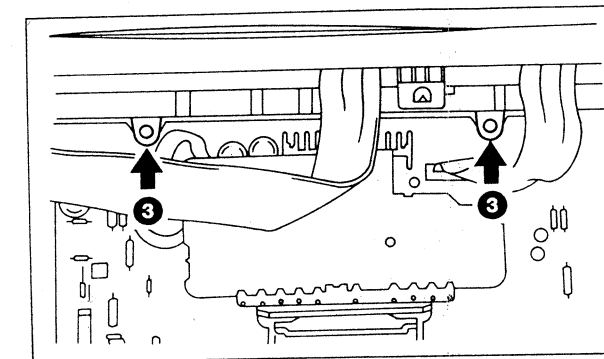
KR-V7060/V8060

DISASSEMBLY FOR REPAIR

How to remove the main PC board

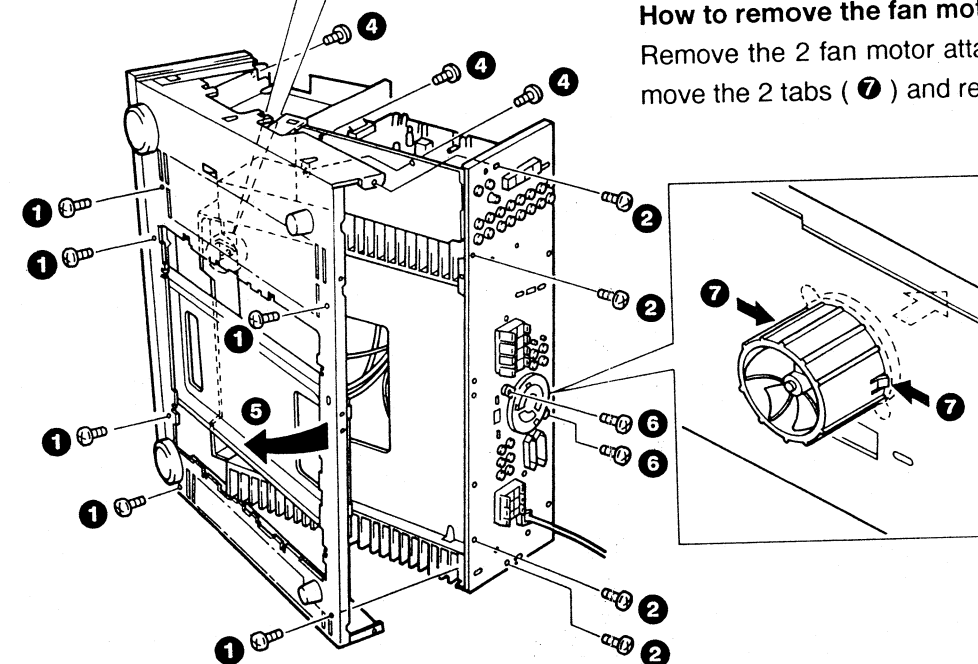
(With the transformer removed and placed atop an appropriate box or stand)

1. Remove the 6 bottom plate screws (1), the 4 back panel screws (2), the 2 radiator fin unit screws (3), and the 3 DSP PCB attachment screws (4). Then remove the main PC board in the direction of the arrow (5).



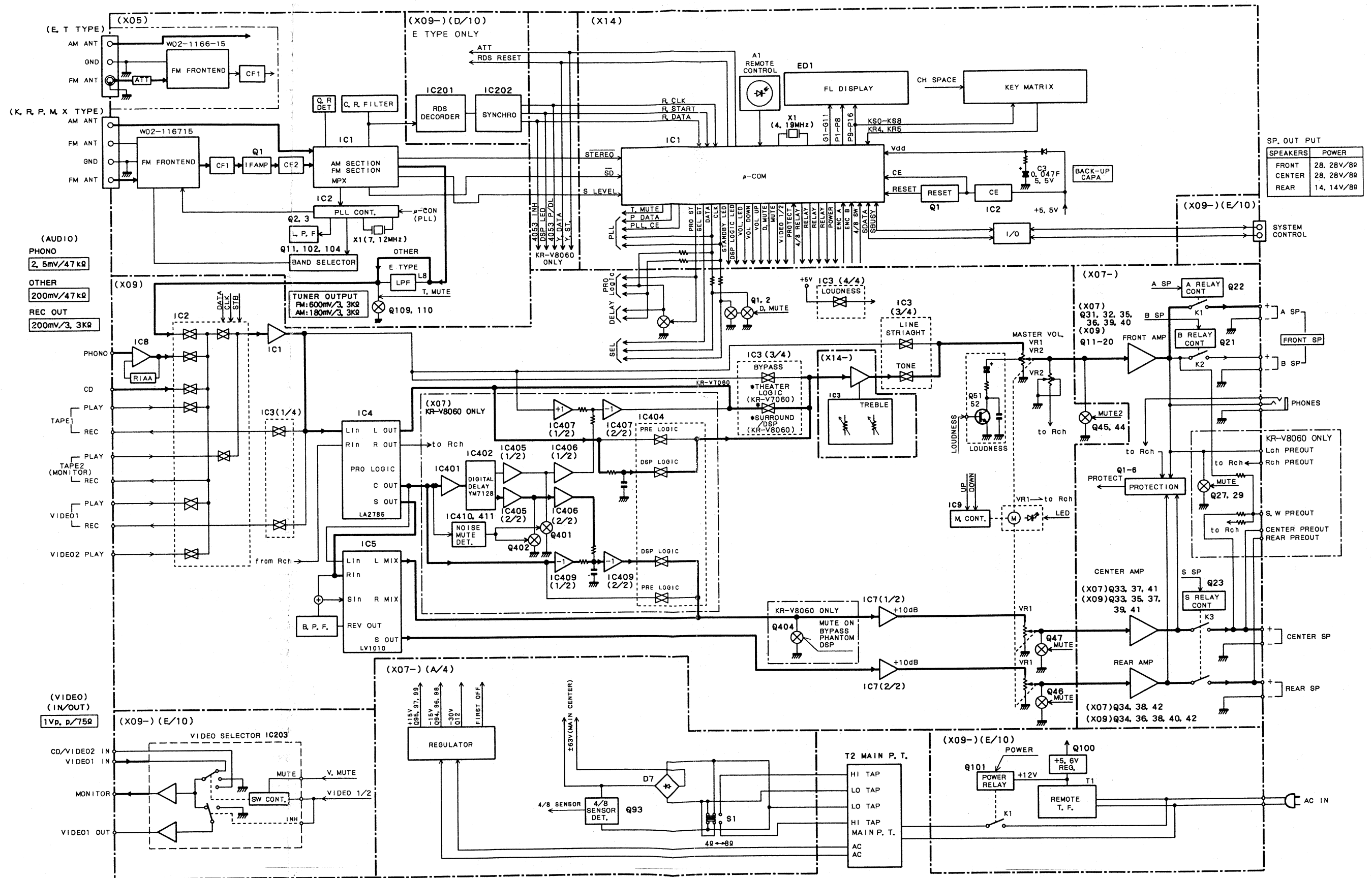
How to remove the fan motor

Remove the 2 fan motor attachment screws (6), remove the 2 tabs (7) and remove the fan motor.



The <X07> DSP main board can be removed toward the front if the PCB attachment hardware on the radiator, the () PC board attachment screws and the () rear panel side screws are removed.

KR-V7060/V8060 KR-V7060/V8060 BLOCK DIAGRAM



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ADJUSTMENT

[FM,AM SECTION : E,T Type ONLY]

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINT	ALIGN FOR	FIG.
FM SECTION SELECTOR : FM							
1	DISCRIMINATOR	(A) 98.0MHz 1kHz, ± 75 kHz dev 60dB μ (ANT input)	Connect a DC voltmeter between TP3 and TP4.	AUTO or MONO 98.0MHz	L3 (X05-) L4 (X05-)	0V Minimum distortion	(a)
2	DISTORTION (STEREO)	(C) 98.0MHz 1kHz, ± 68.25 kHz dev Selector: L or R Pilot : ± 6.75 kHz dev 60dB μ (ANT input)	(B)	98.0MHz	IFT (W02-)	Minimum distortion. (L or R)	
3	SEPARATION	(C) 98.0MHz Stereo signal 60dB μ (ANT input)	(B)	AUTO 98.0MHz	VR3 (X05-)	Minimum crosstalk	
4	TUNING LEVEL	(A) 98.0MHz 0dev 14dB μ (ANT input)75 Ω 18dB μ (ANT input)30 Ω	(B)	AUTO or MONO 98.0MHz	VR1 (X05-)	Adjust VR1 and stop at the point where ED1(TUNED) goes on.	
AM SECTION SELECTOR : AM							
(1)	TUNING LEVEL	(D) 1008kHz 20dB μ (ANT input)	(B)	1008kHz	VR2 (X05-)	Adjust VR2 and stop at the point where ED1(TUNED) goes on.	

[COMMON]

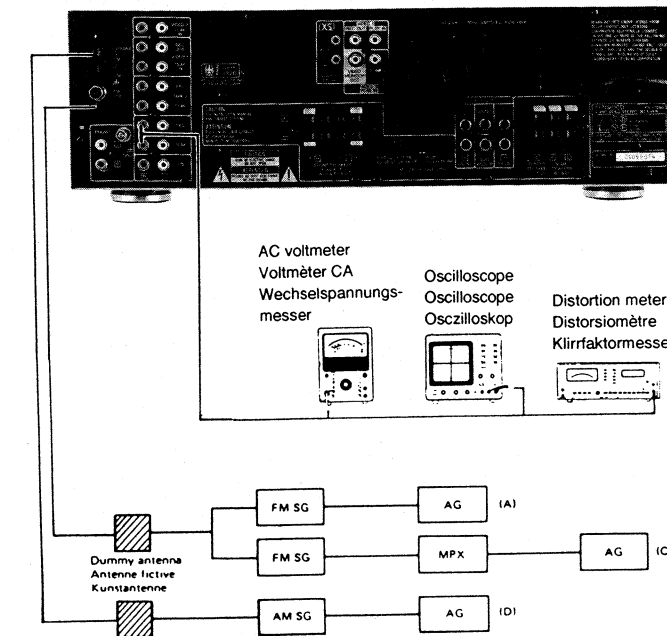
No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	AMPLIFIER SETTINGS	ALIGNMENT POINT	ALIGN FOR	FIG.
AUDIO SECTION							
<1>	IDLE CURRENT		(E) Connect a DC voltmeter across CP1(L) CP2(R) CP3(CENTER) CP4(REAR)	Volume:0	VR1(L) VR2(R) VR3(CENTER) VR4(REAR) (X07-)	22mV	(b)
POWER : ON SELECTOR : CD(NO SIGNAL) SURROUND : PRO LOGIC							
<2>	PRO LOGIC S-OUT NOISE LEVEL	Short between TP6 and TP7 (B/10), between TP10 and TP11 (J/10) (X09-)	Connect a oscilloscope Rear sp L or R. (Connect load with Rear sp L or R.)	Volume:MAX REAR LEVEL:MAX	VR3 (X09-) (J/10)	Minimum noise level (fig. ③ point of (c).)	(c)

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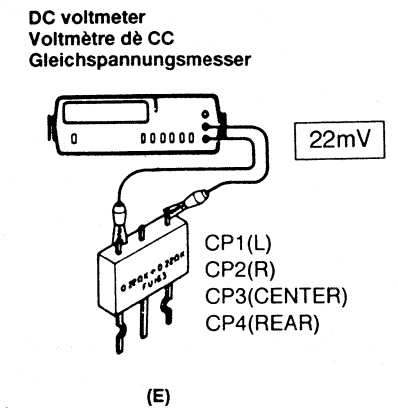
ADJUSTMENT

(a)

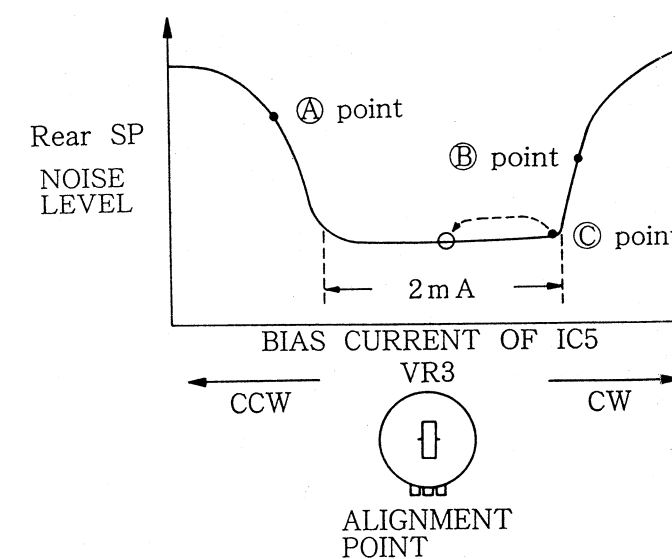
(b)



System connections/ Reccordements du système/ System-Anschlusse

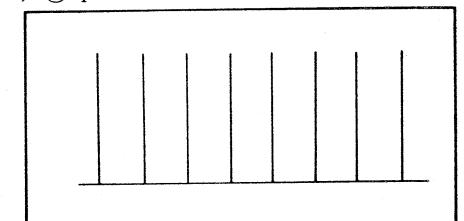


(c)

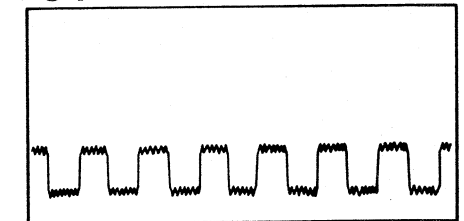


[Procedure]

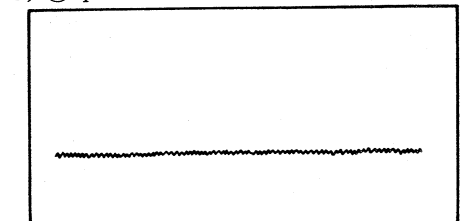
1) ① point



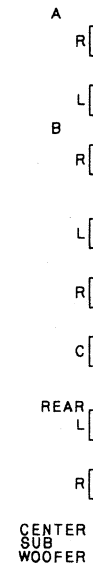
2) ② point



3) ③ point (Minimum noise level)



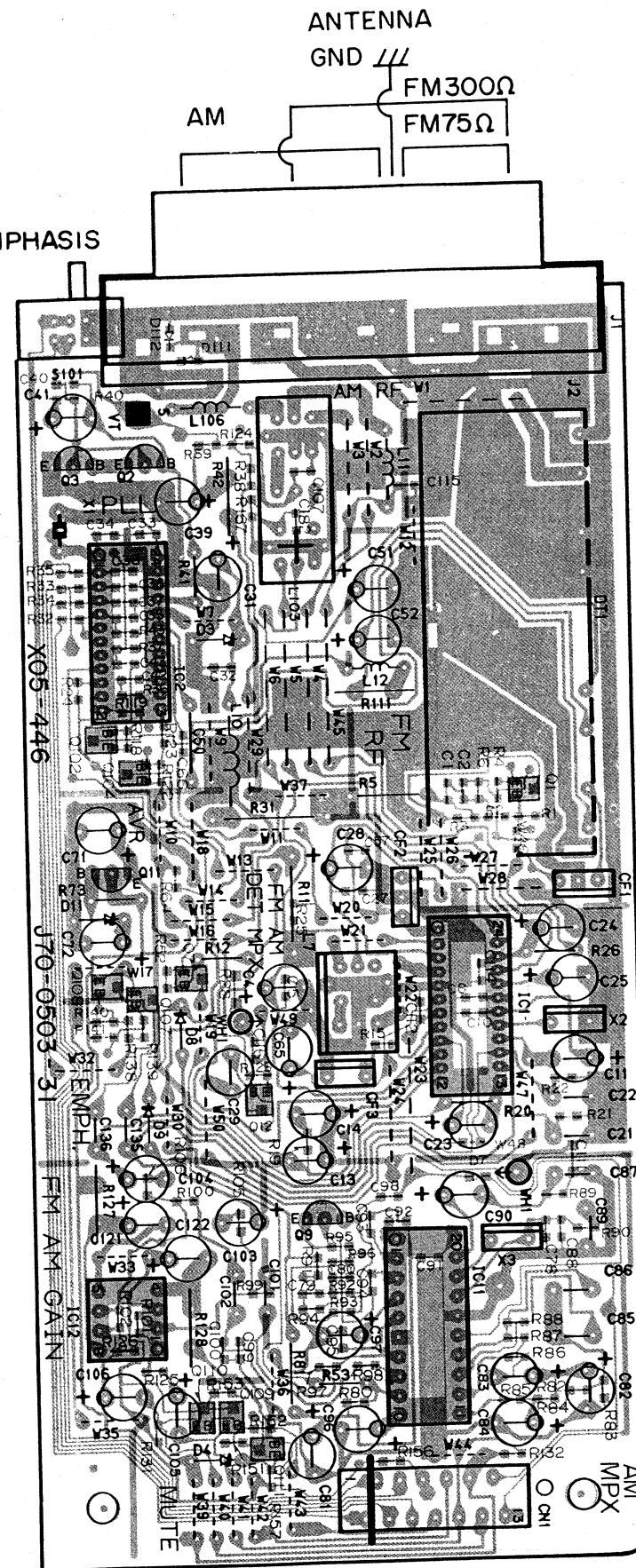
WIRING DIAGRAM



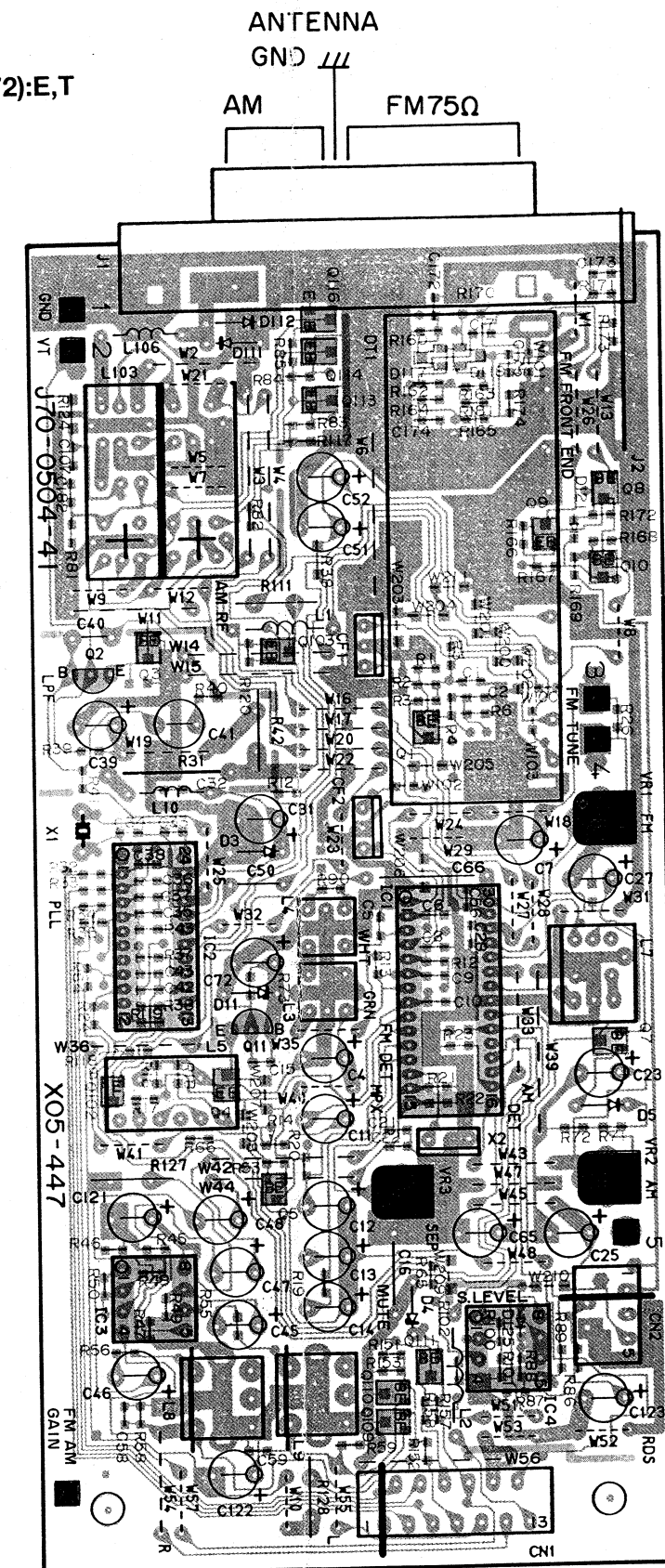
PC BOARD (Component side view)

TUNER UNIT(X05-4460-11):K,P,R
0-21:Y,M
0-71:X

DE - EMPHASIS

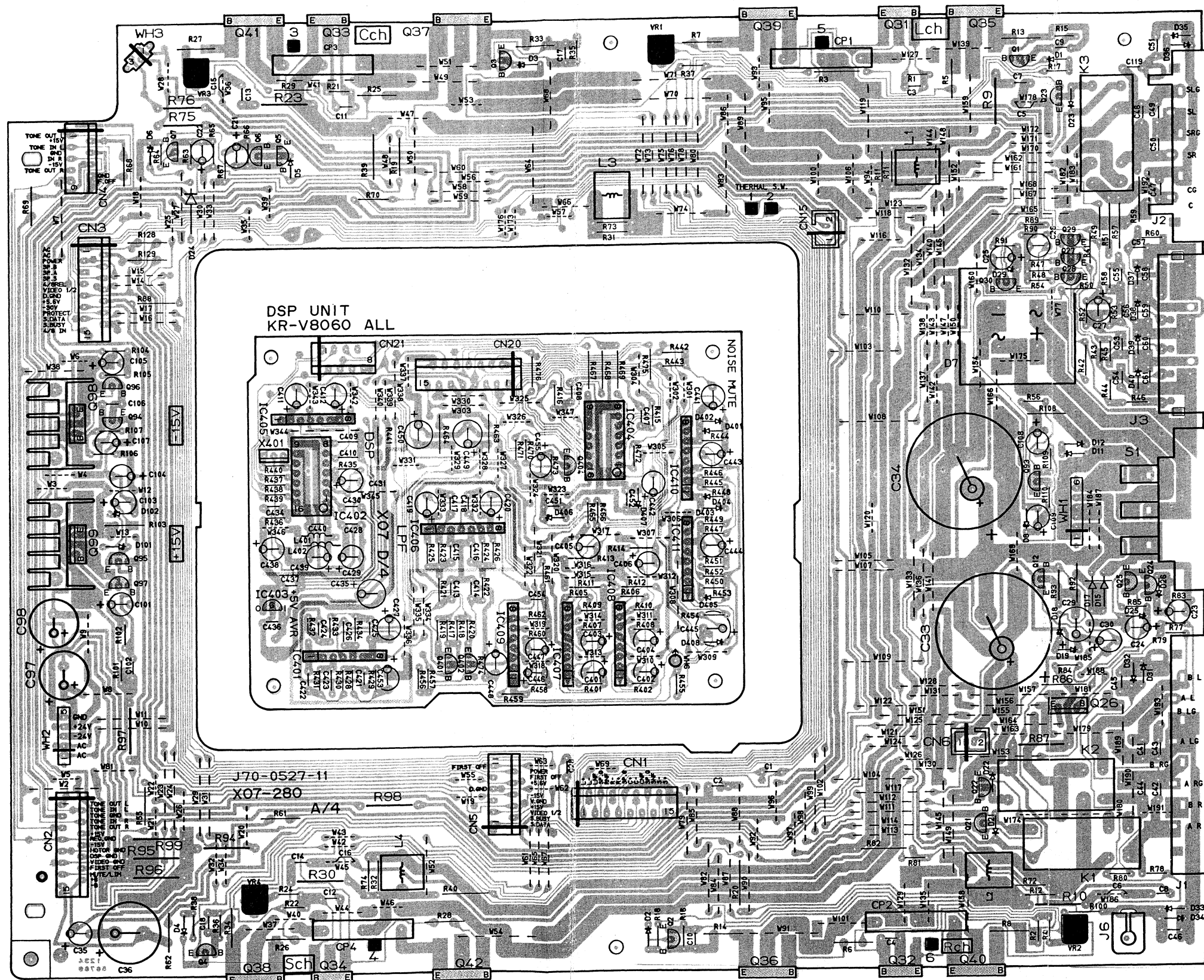
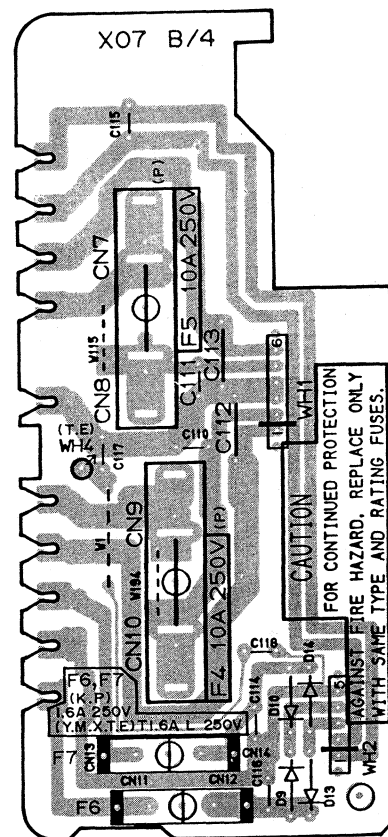
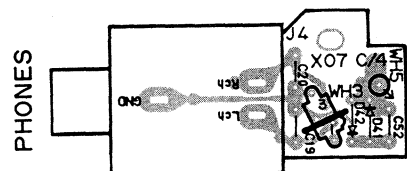
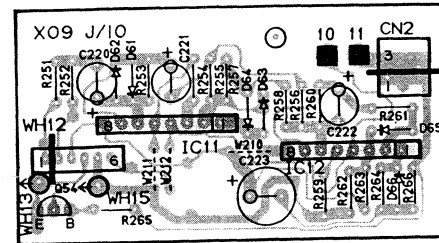


TUNER UNIT(X05-4472-72):E,T



PC BOARD (Component side view)

MAIN AMP UNIT(X07-2800-10):K,R (KR-V8060)
 0-11:K,R (KR-V7060)
 0-21:Y,M,X(KR-V8060)
 0-22:Y,M (KR-V7060)
 1-01:P (KR-V8060)
 1-02:P (KR-V7060)
 2-71:T,E (KR-V7060)



REAR SPEAKER (8-16Ω)
 CENTER SPEAKER (8-16Ω)

REAR SUB WOOFER
 CENTER SUB WOOFER

IMPEDANCE SELECTOR
 A or B: LESS THAN 8Ω OR MORE
 A and B: 8Ω OR MORE

FRONT SPEAKERS
 (A or B: 4-16Ω;
 A and B: 8-16Ω)

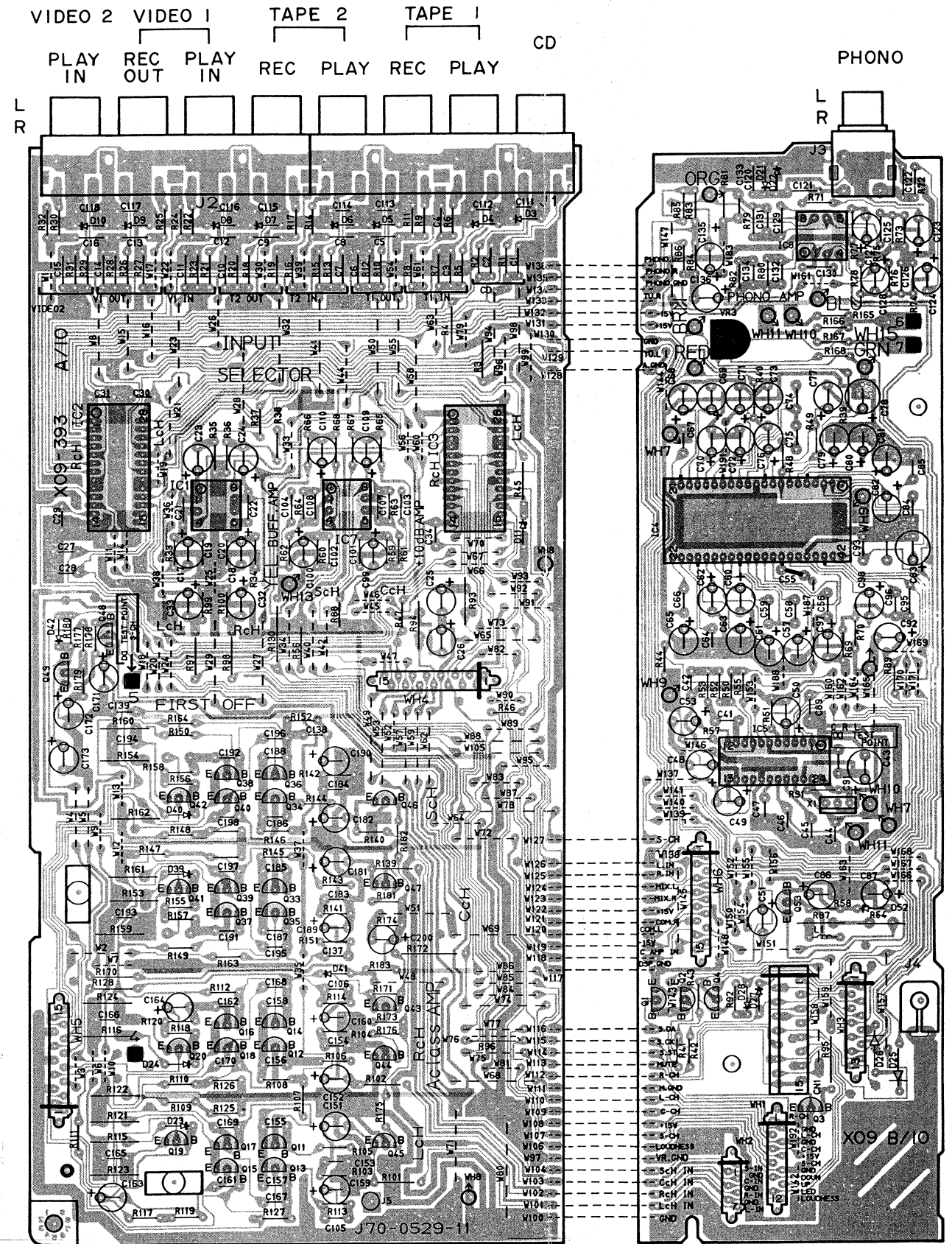
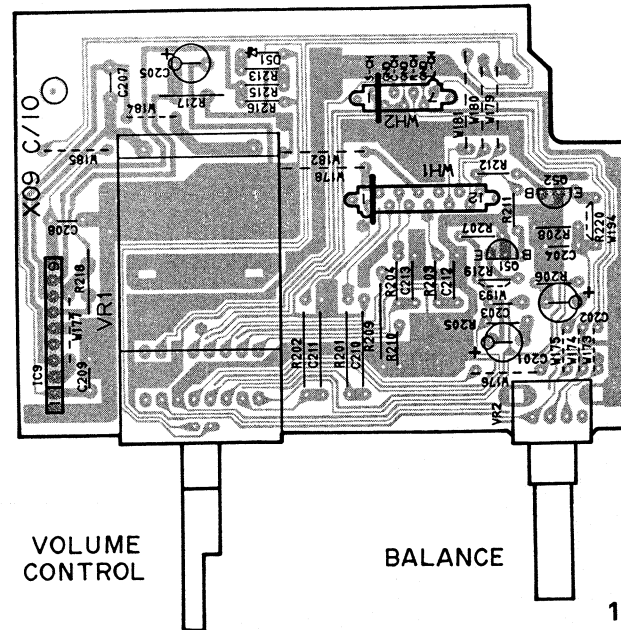
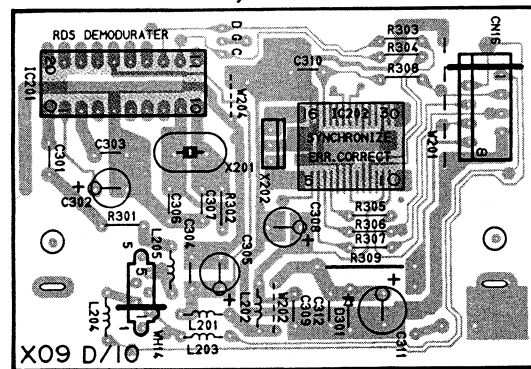
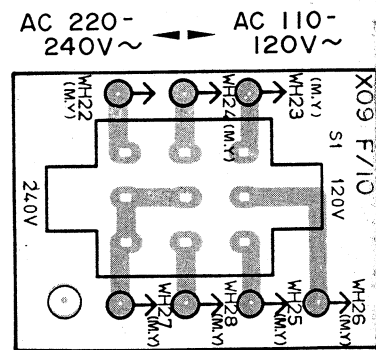
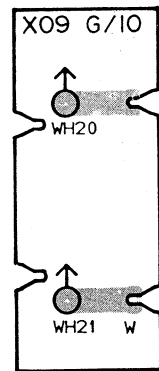
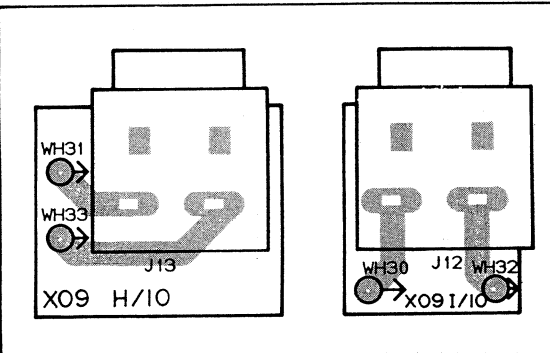
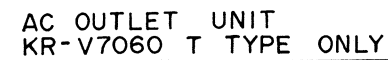
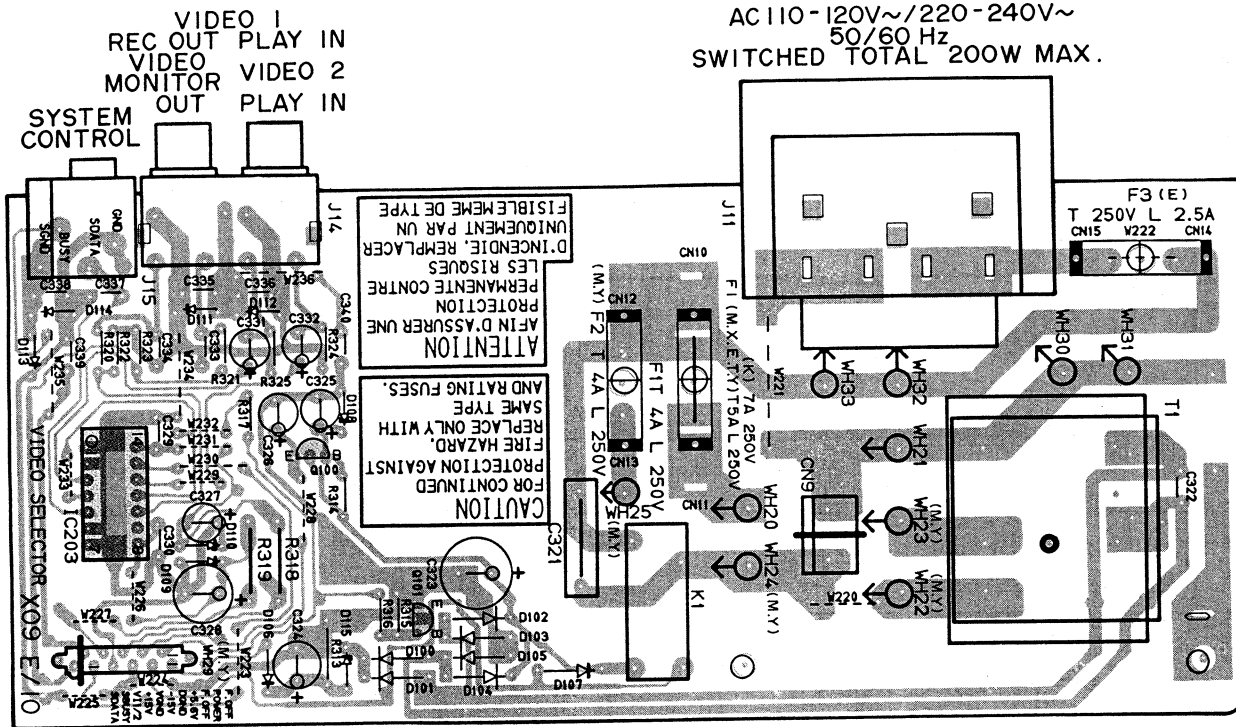
FRONT

PC BOARD (Component side view)

AUDIO UNIT(X09-3930-10):K,P,R(KR-V8060)
0-11:K,P,R (KR-V7060)
0-21:M (KR-V8060)

0-22:M (KR-V7060)
0-51:T (KR-V7060)
0-71:X (KR-V8060)

2-71:E (KR-V7060)
2-91:Y (KR-V8060)
2-92:Y (KR-V7060)



Refer to the schematic diagram for the values of resistors and capacitors.

PC BOARD (Component side view)

DISPLAY UNIT(X14-3870-10):K,P,R(KR-V8060)

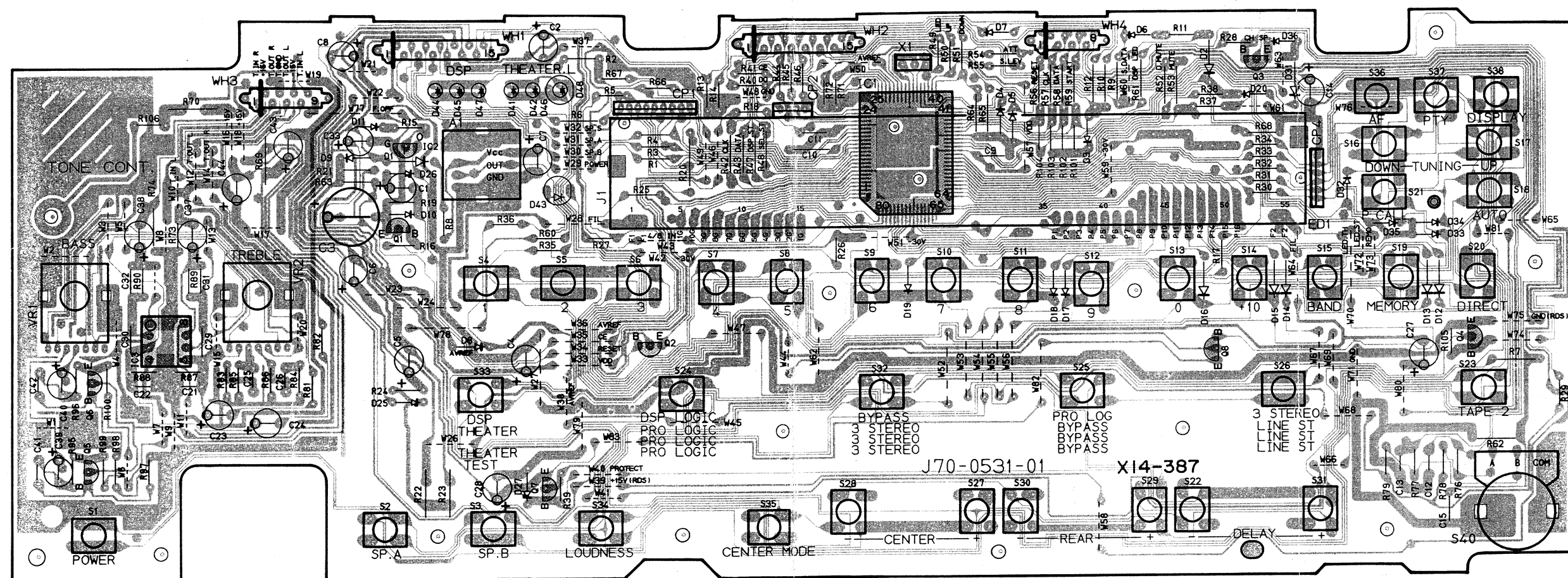
0-11:K,P,R(KR-V7060)

0-21:Y,M (KR-V8060)

0-22:Y,M (KR-V7060)

0-71:X (KR-V8060)

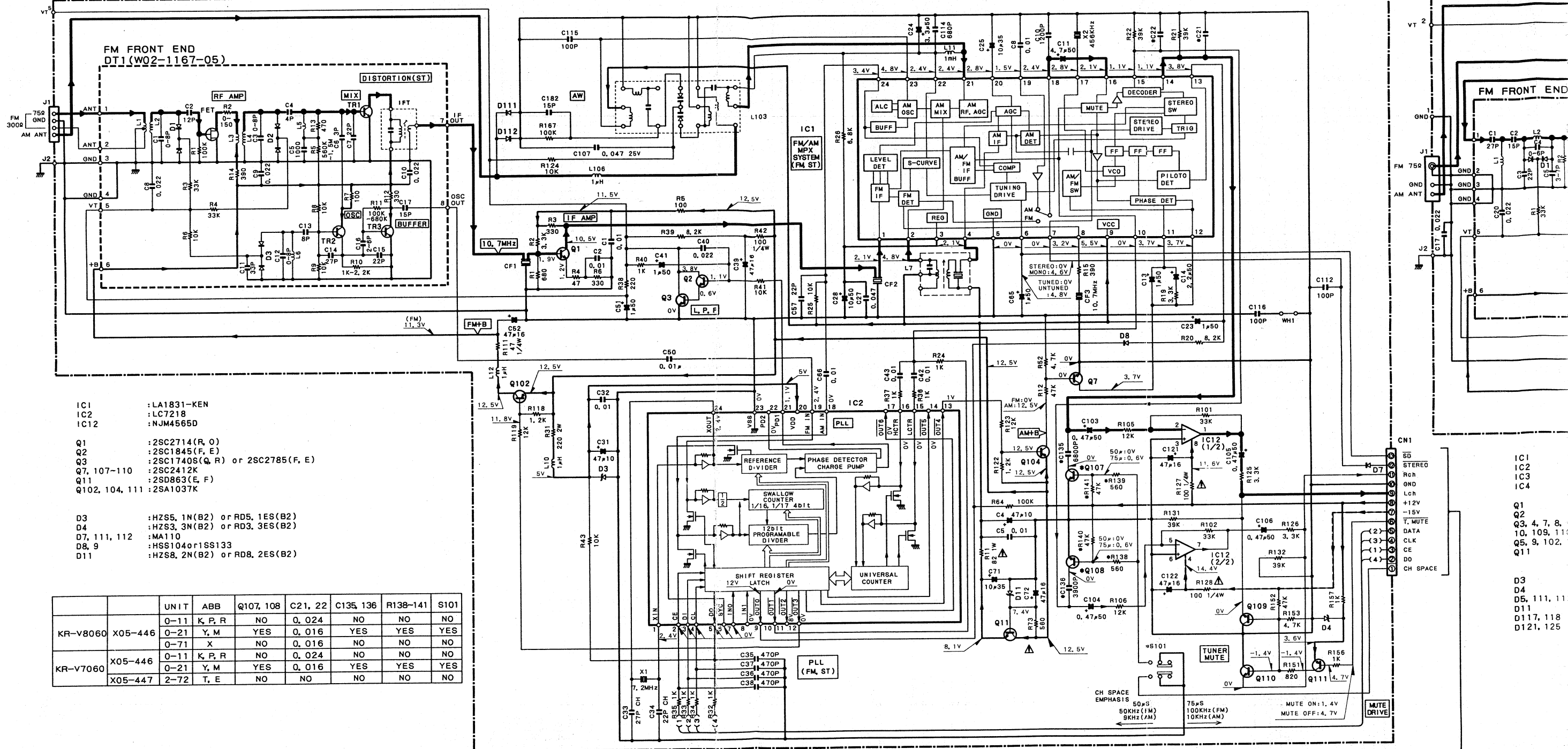
2-71:T,E (KR-V7060)



FRONT

X05-4460-11(K, P) X05-4460-71(X) X05-4460-21(M, Y)

X05-4472-72 (E, T, Y)



2SA1123
 2SA1534A
 2SA992
 2SC1845
 2SC2003
 2SC2631
 2SC2878
 2SC3940A
 2SD863

2SB1560LB
 2SD2390LB

2SA1175
 2SC2785

DTA124ES
 DTC124ES
 DTC143TS
 UN4112
 2SA933S
 2SC1740S

2SA1037K
 2SC2412K
 2SC2714

UN4212
 UN4216

2SD2012
 2SD2374

NJM4565D

NJM2279D

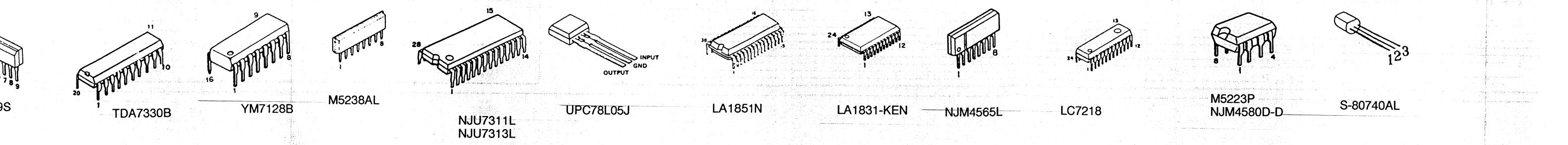
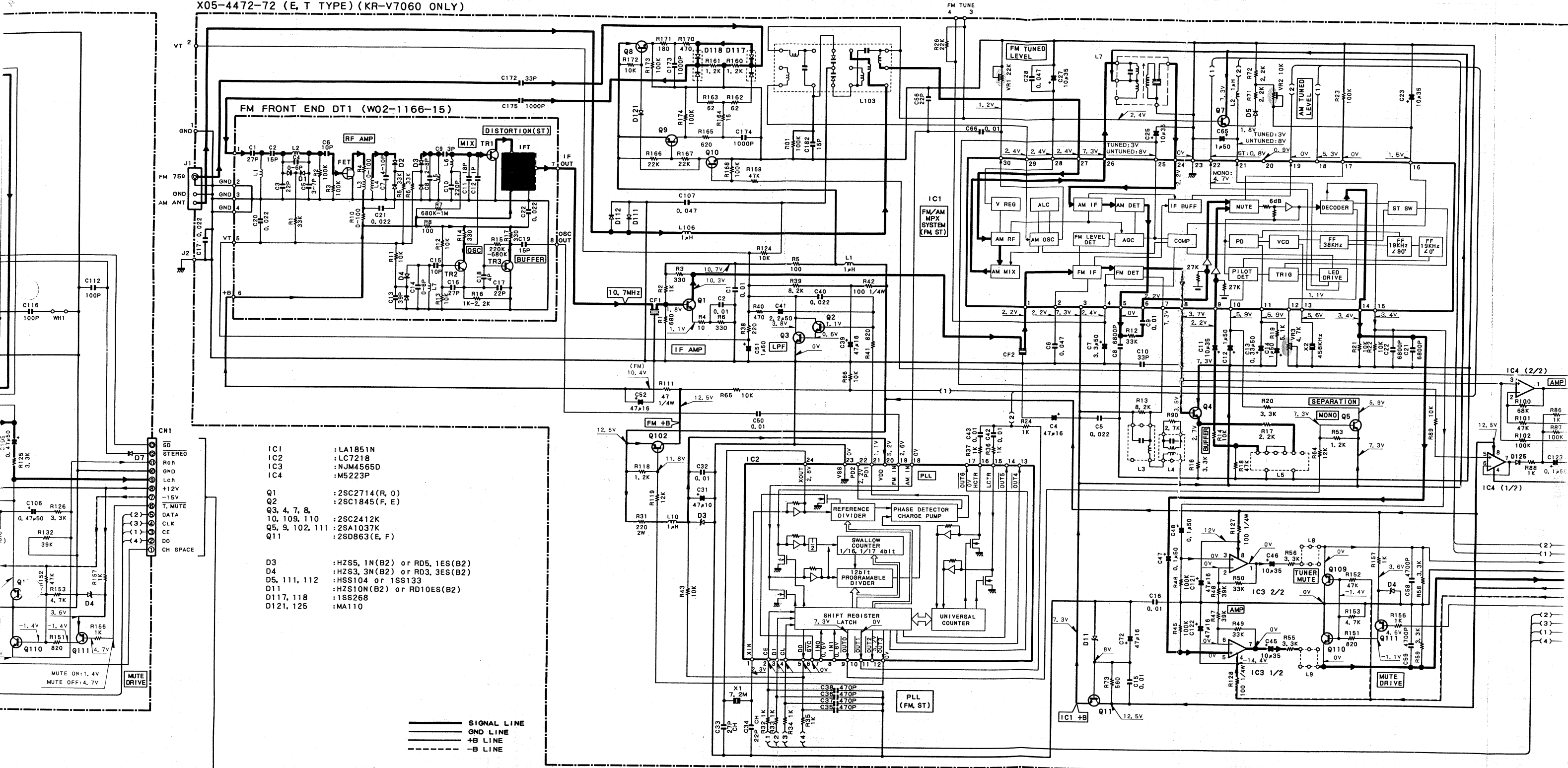
XRU4053B

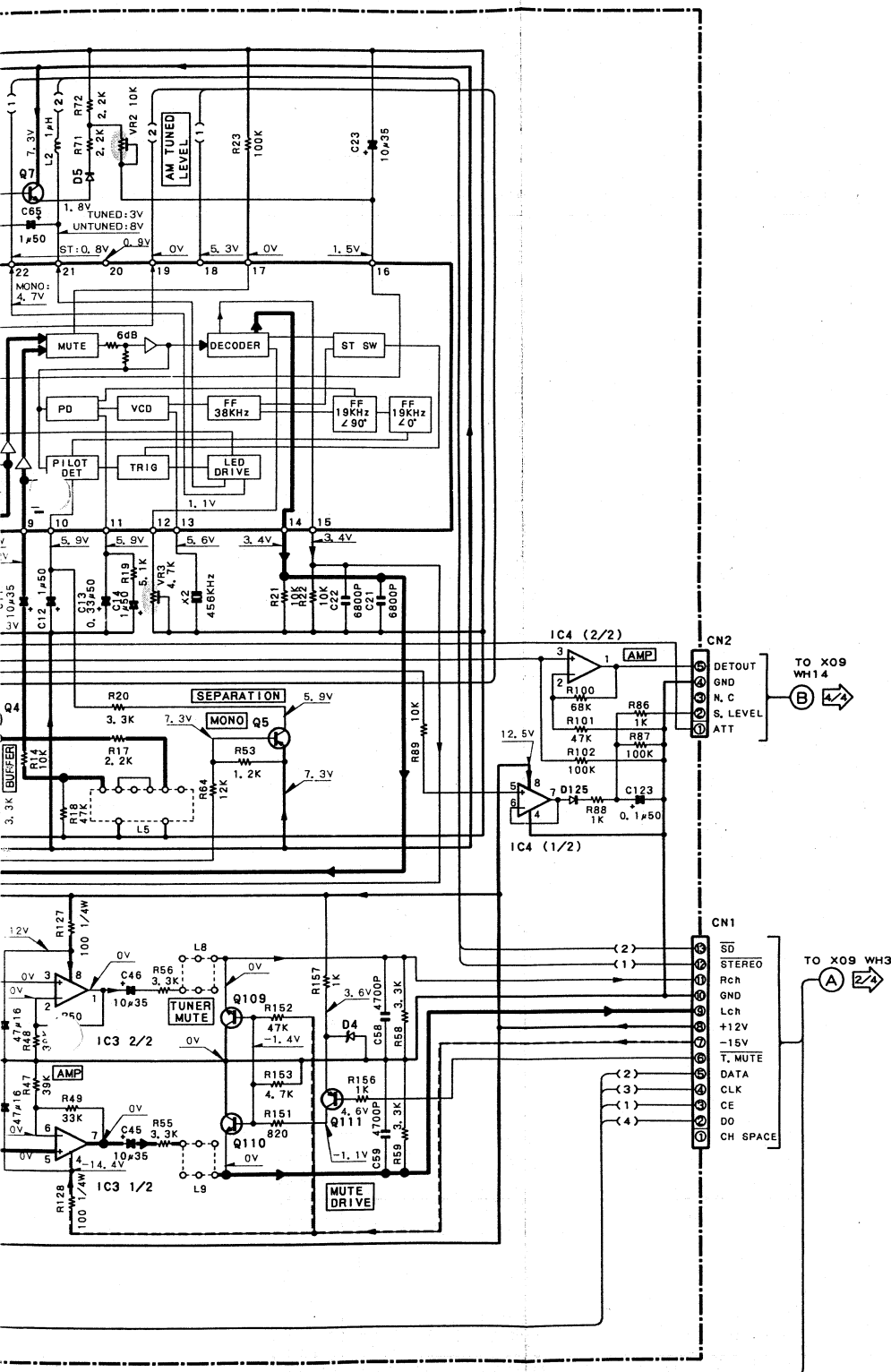
TA8409S

TDA7330B

YM7128B

X05-4472-72 (E, T TYPE) (KR-V7060 ONLY)



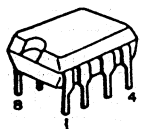


DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

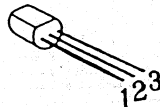
Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U.geringfügig.

CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list) Δ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.



M5223P
NJM4580D-D



S-80740AL

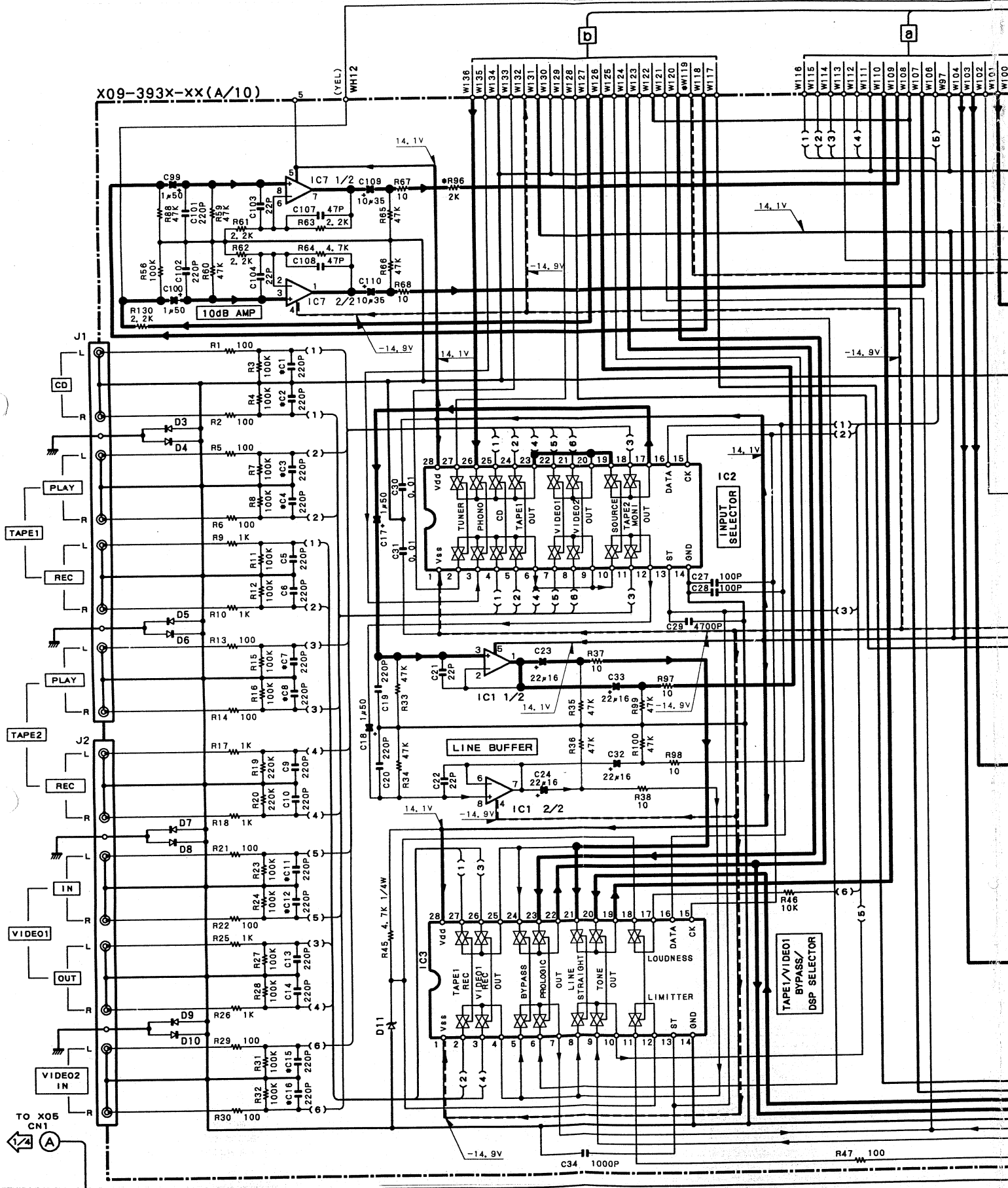
1/4

KR-V7060/8060

KENWOOD

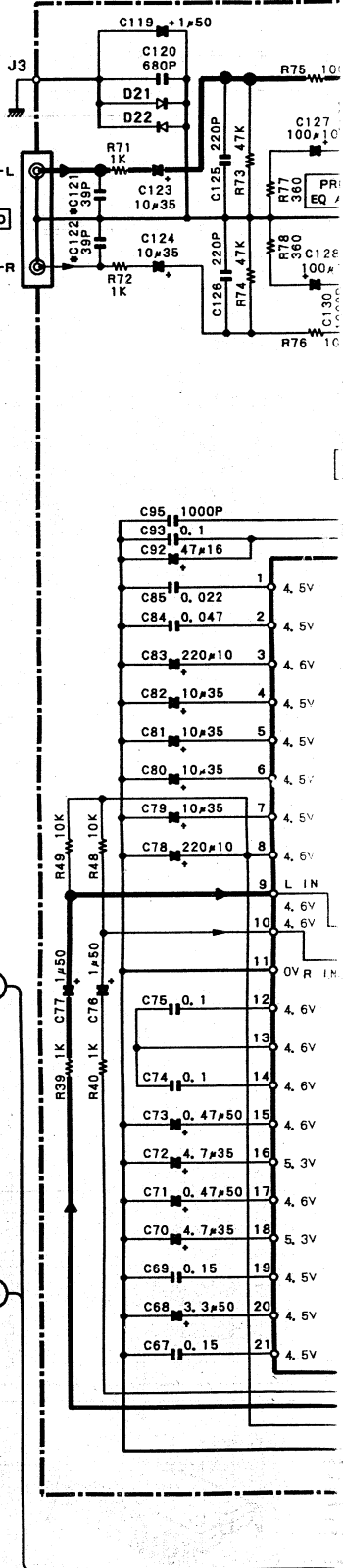
Y05-2830-11

X09-393X-xx(A/10)



UNIT	REF. NO.	C1-16	C51	C55	C195	R55	R56	R113	114	D51	Q3	VR1	WH6	WH9, 69, 82, 119, 120, 121, 148, 192	W76, 150, 153, 154
0-10	K, R, P	NO	NO	0, 47	YES	NO	YES	YES	YES	YES	YES	R29-5087-05	YES	YES	NO
0-21	M	NO	NO	0, 82	YES	YES	NO	YES	NO	NO	NO	R29-5087-05	NO	NO	YES
0-71	X	NO	YES	0, 82	YES	YES	NO	YES	NO	NO	NO	NO	NO	NO	NO
0-11	K, R, P	NO	YES	0, 82	YES	YES	NO	YES	NO	NO	NO	R29-5087-05	NO	NO	YES
2-92	Y	NO	YES	0, 82	YES	YES	NO	YES	NO	NO	NO	NO	NO	NO	NO
0-51	T	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-71	E	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

X09-(B/10)



X07-280X-XX (A/4)

TO X09 WH6

TO X14 WH5

TO X14 WH4

(X07-)(C/4)

HEAD PHONES

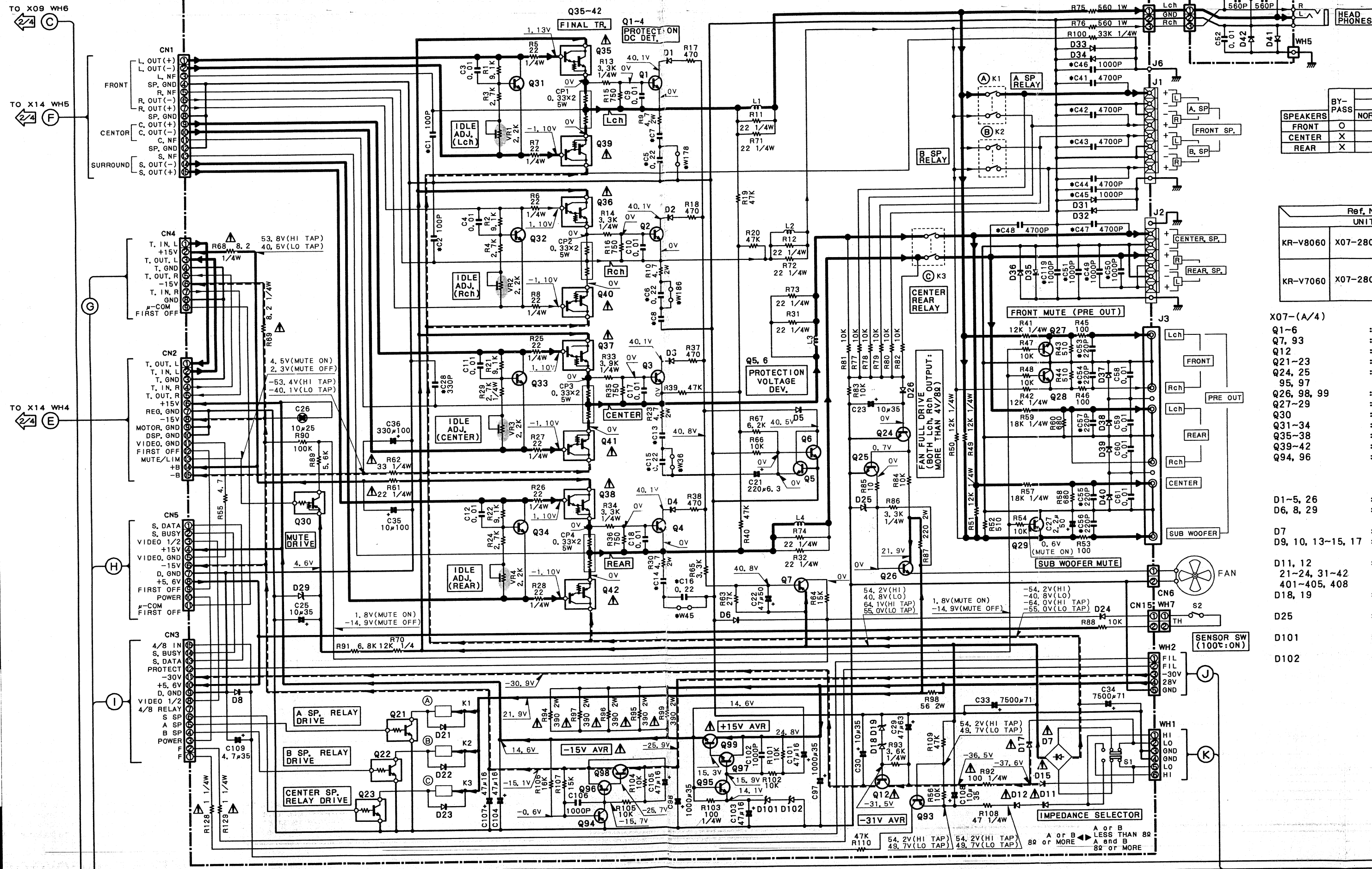
SPEAKERS	BY-PASS	P	
		NOR.	WID.
FRONT	O	O	
CENTER	X	O	
REAR	X	O	

Ref. NO		
UNIT		
KR-V8060	X07-280	0-1
		1-0
		0-2
KR-V7060	X07-280	0-1
		1-0
		0-2
		2-7

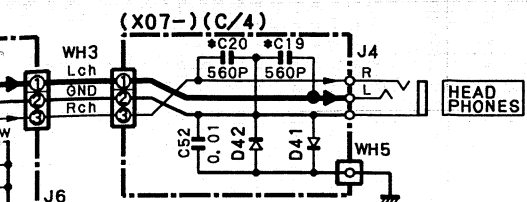
X07-(A/4)

Q1-6	:2SC1
Q7, 93	:2SA9
Q12	:2SA1
Q21-23	:DTC1
Q24, 25	:2SC1
95, 97	:2SC2
Q26, 98, 99	:2SD2
Q27-29	:2SC2
Q30	:DTA1
Q31-34	:2SC4
Q35-38	:2SD2
Q39-42	:2SB1
Q94, 96	:2SA9
	:2SA1

D1-5, 26	:HSS1
D6, 8, 29	:RD4
	:HSS4
D7	:D5FB
D9, 10, 13-15, 17	:S568
	:1SR1
D11, 12	:HSS1
21-24, 31-42	
401-405, 408	
D18, 19	:RD16
	:HSS1
D25	:RD3
	:HSS3
D101	:RD8
	:HSS8
D102	:RD6
	:HSS6



X07-280X-xx (D/4) KR-V8060 ONLY (SP UNIT)



SPEAKERS	BY-PASS	PROLOGIC			DSP (KR-V8060)	DSP LOGIC (KR-V8060) THRU-LOGIC (KR-V7060)
		SURROUND		3STEREO		
		NOR., WIDE	PHANTOM			
FRONT	O	O	O	O	O	
CENTER	X	O	X	O	X	
REAR	X	O	O	X	O	

0: SPEAKERS OUTPUT

Ref. NO UNIT				C1, 2, 5, 6, 15, 16, 19, 20, 28 41-51, 53-57, 119	C7, 8 13, 14	W36, 45 178, 186
KR-V8060	X07-280	0-10	K, R	NO	0, 1	YES
		1-01	P	NO	0, 1	YES
		0-21	Y, M, X	NO	0, 1	YES
KR-V7060	X07-280	0-11	K, R	NO	0, 1	YES
		1-02	P	NO	0, 1	YES
		0-22	Y, M	NO	0, 1	YES
		2-71	T, E	YES	0, 22	NO

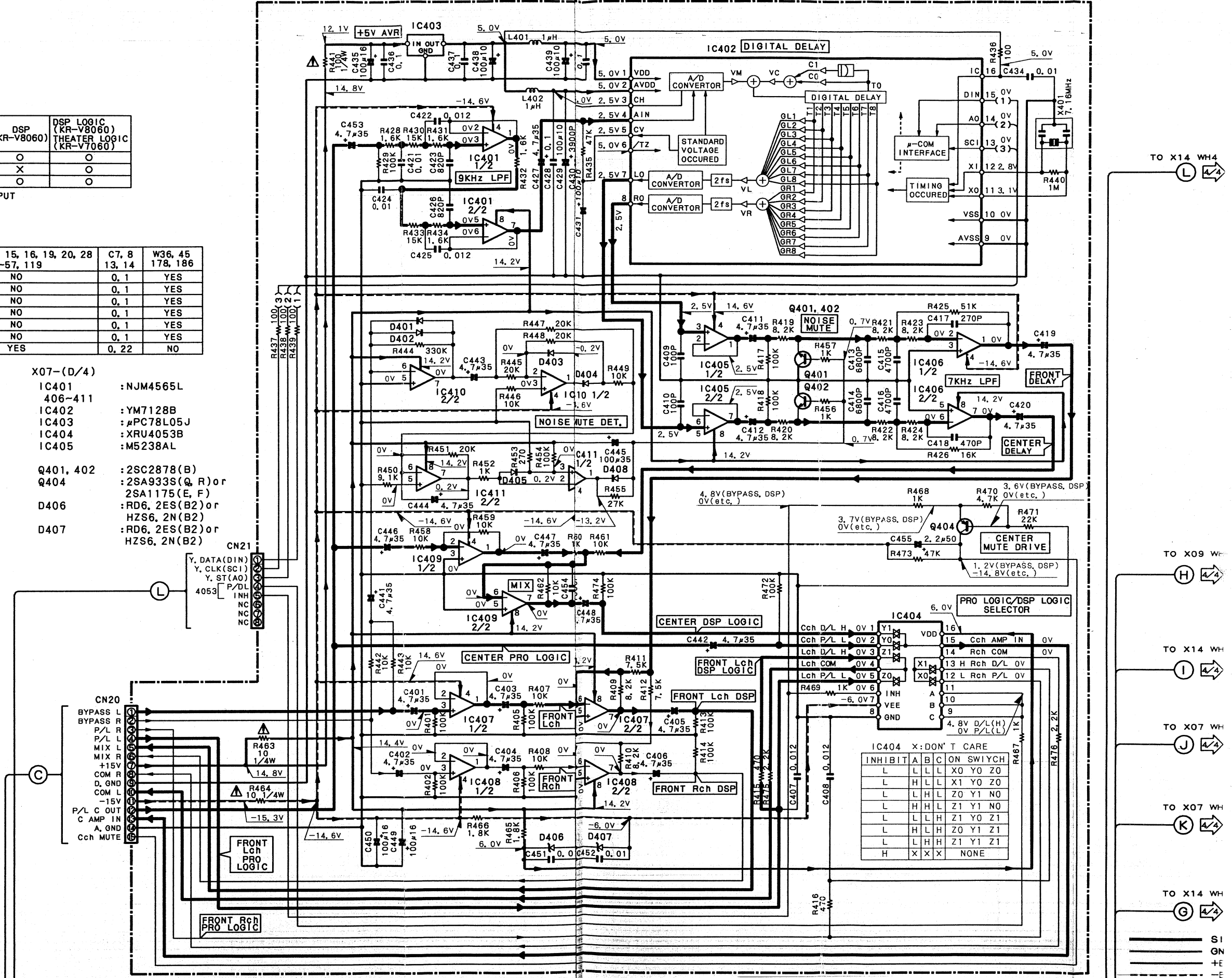
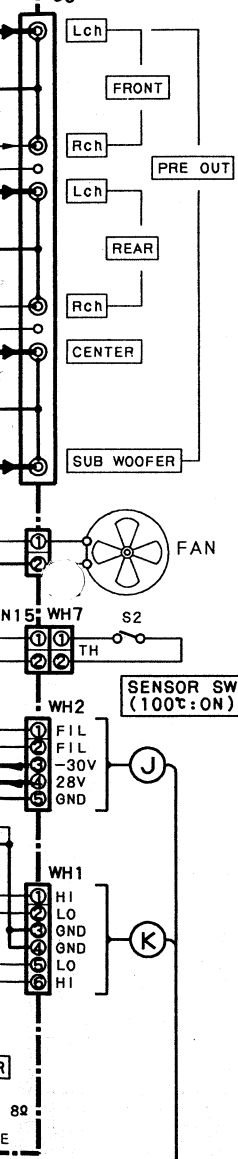
X07-(A/4)

- Q1-6 :2SC1845(F, E)
Q7, 93 :2SA992(F, E)
Q12 :2SA1534A(R, S)
Q21-23 :DTC143TS or UN4216
Q24, 25 :2SC1740S(Q, R) or
95, 97 :2SC2785(F, E)
Q26, 98, 99 :2SD2374 or 2SD2012
Q27-29 :2SC2878(B)
Q30 :DTA124ES or UN4112
Q31-34 :2SC4137F19(V, W)
Q35-38 :2SD2390LB
Q39-42 :2SB1560LB
Q94, 96 :2SA933S(Q, R) or
2SA1175(E, F)

- | | |
|-------------------|---------------------------------|
| D1-5, 26 | :HSS104A or 1SS131 |
| D6, 8, 29 | :RD4, 7ES(B)or
HZS4, 7N(B) |
| D7 | :D5FB20*1 |
| D9, 10, 13-15, 17 | :S5688Bor
1SR139-100 |
| D11, 12 | :HSS104 or 1SS133 |
| 21-24, 31-42 | |
| 401-405, 408 | |
| D18, 19 | :RD16ES(B2)or
HZS16N(B2) |
| D25 | :RD3, 9ES(B2)or
HZS3, 9N(B2) |
| D101 | :RD8, 2ES(B2)or
HZS8, 2N(B2) |
| D102 | :RD6, 2ES(B2)or
HZS6, 2N(B2) |

X07-(D/4)

- | | |
|-----------|------------------------------------|
| IC401 | :NJM4565L |
| 406~411 | |
| IC402 | :YM7128B |
| IC403 | :μPC78L05J |
| IC404 | :XRU4053B |
| IC405 | :M5238AL |
| | |
| Q401, 402 | :2SC2878(B) |
| Q404 | :2SA933S(Q, R) or
2SA1175(E, F) |
| D406 | :RD6, 2ES(B2) or
HZS6, 2N(B2) |
| D407 | :RD6, 2ES(B2) or
HZS6, 2N(B2) |



TO X14 WH4

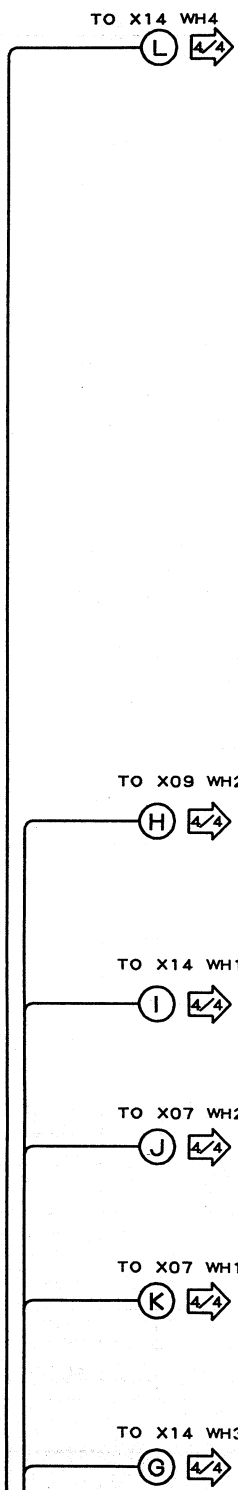
TO X09 W

TO X14 WH

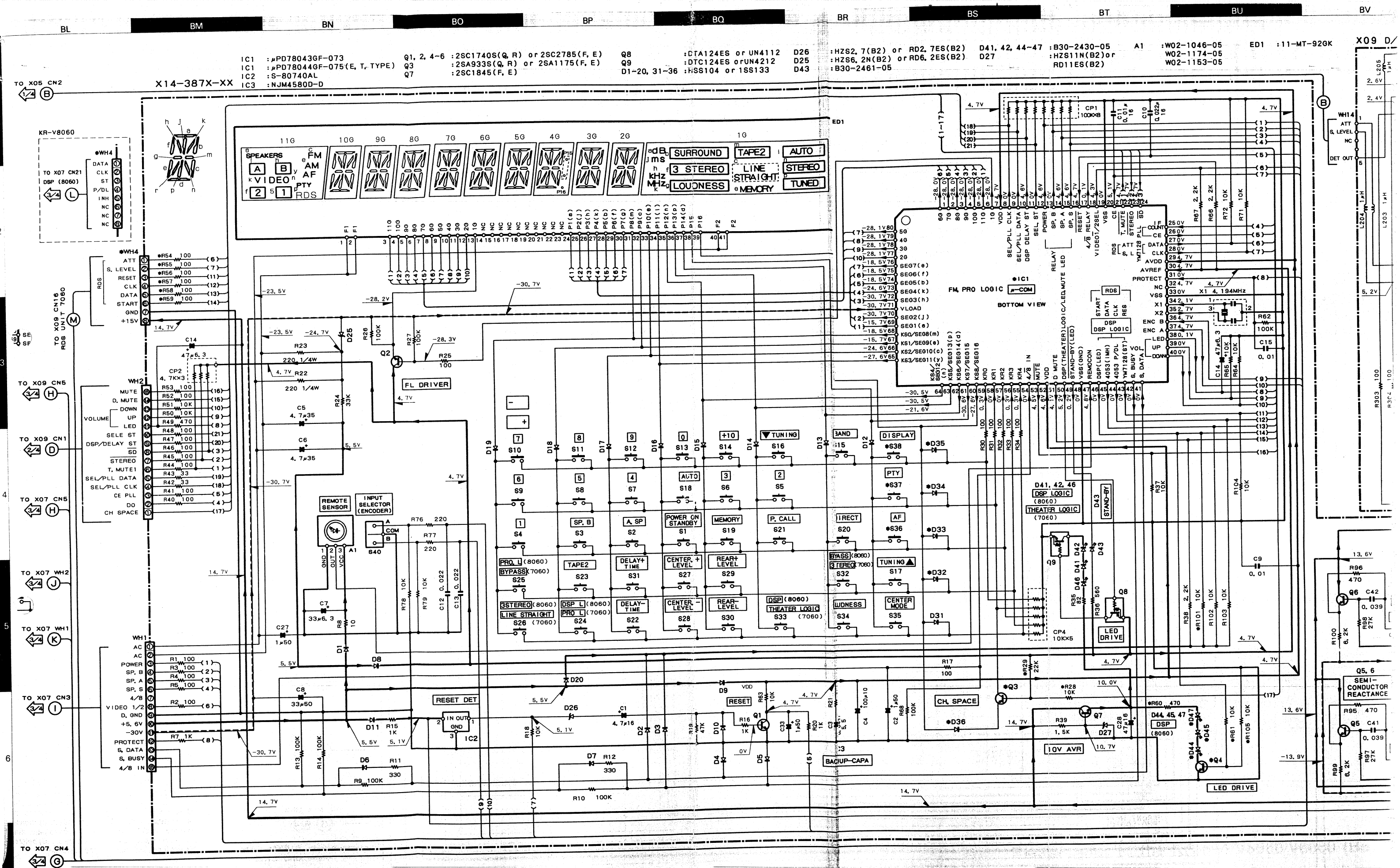
TO X07 WH

TO X07 WH

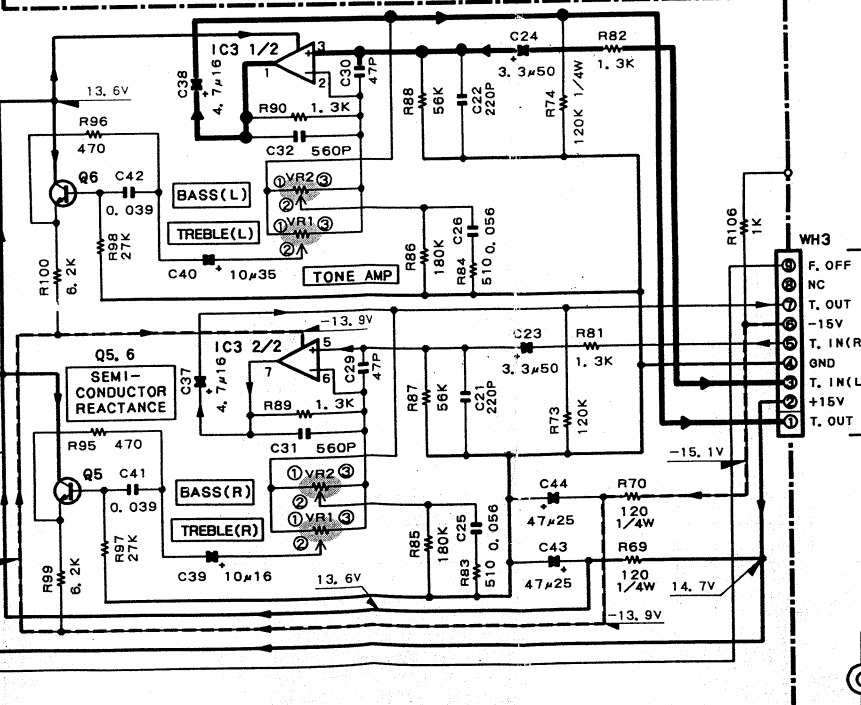
TO X14 WH



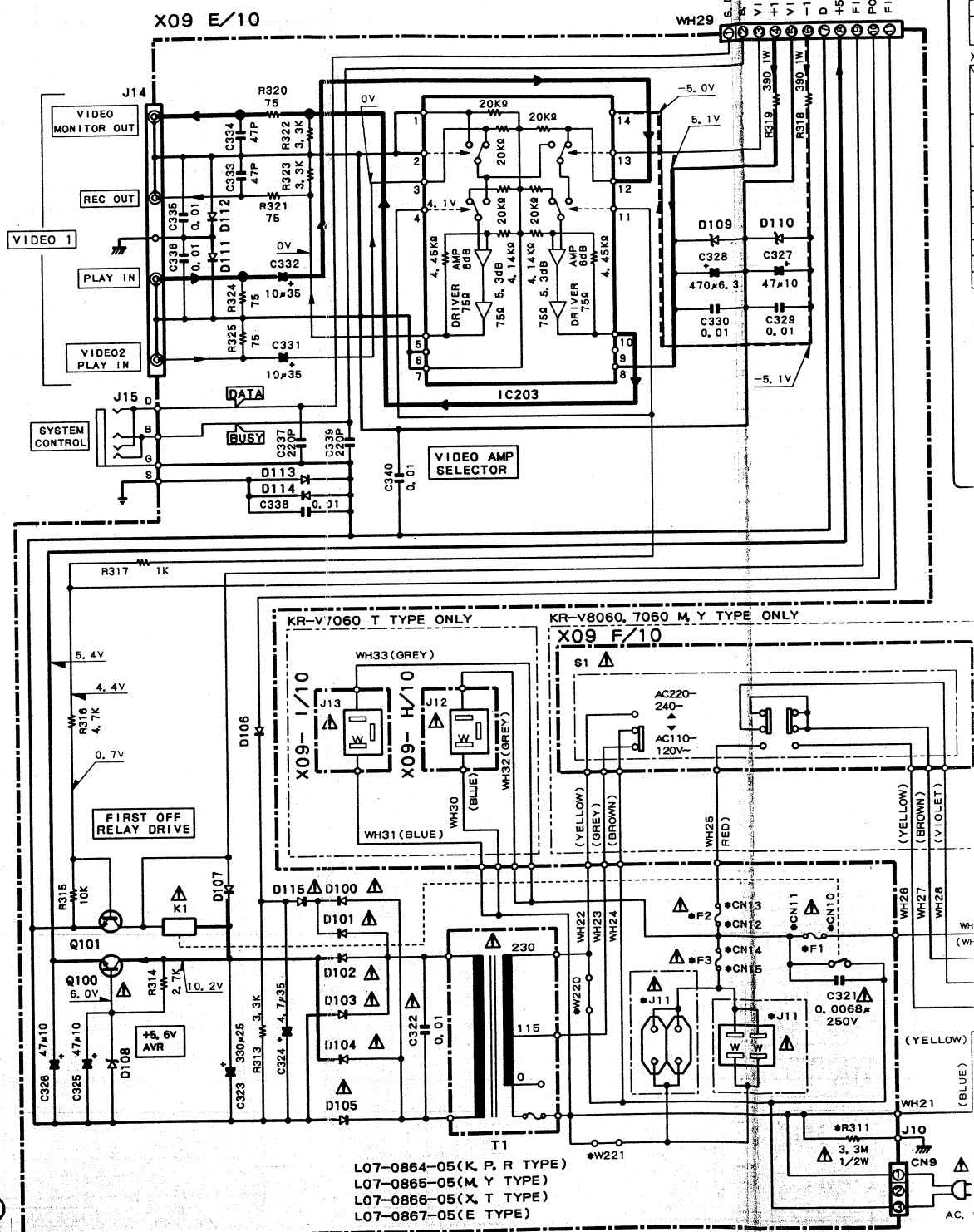
_____ SIGNAL LINE
 _____ GND LINE
 _____ +B LINE
 - - - - - -B LINE

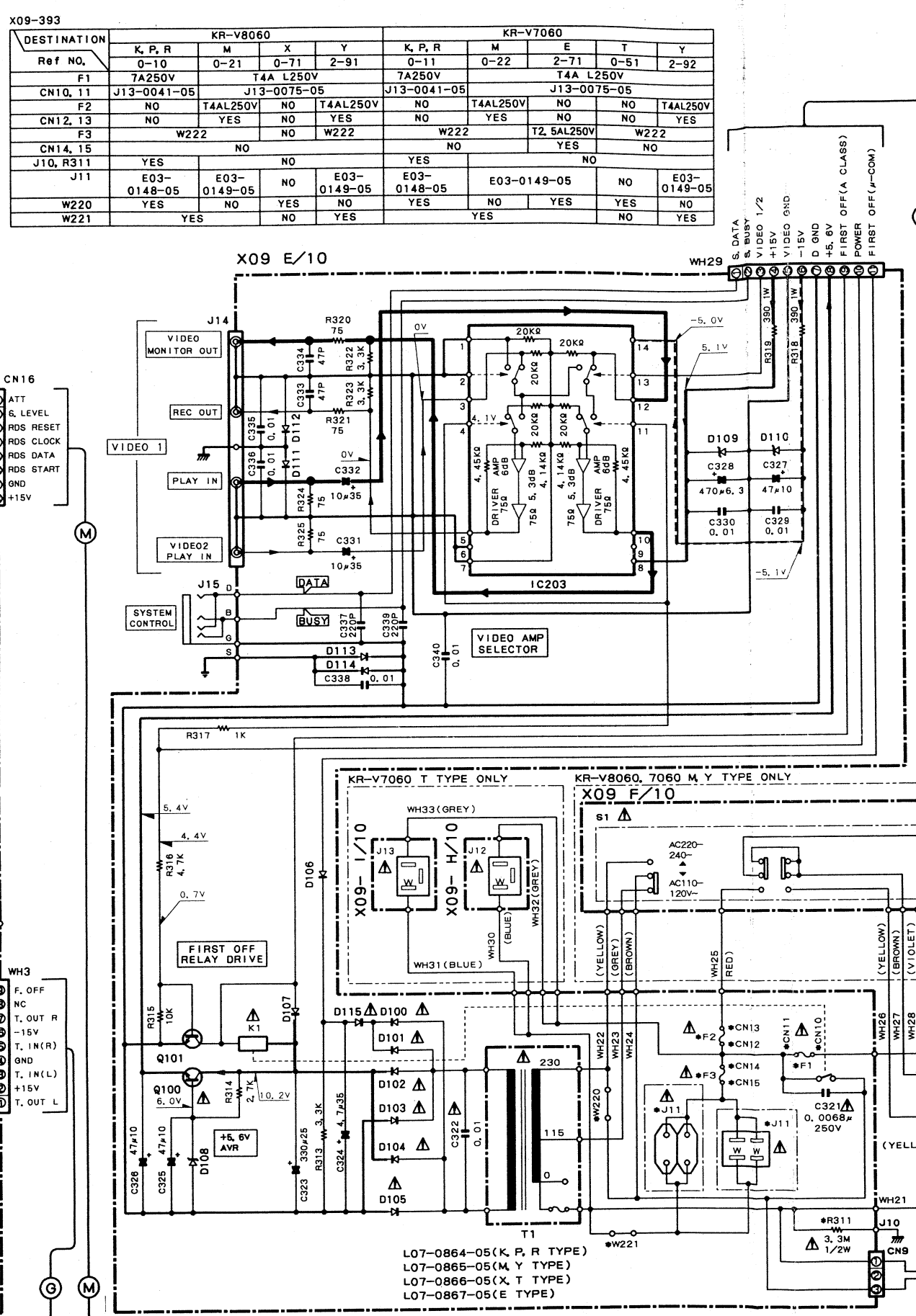
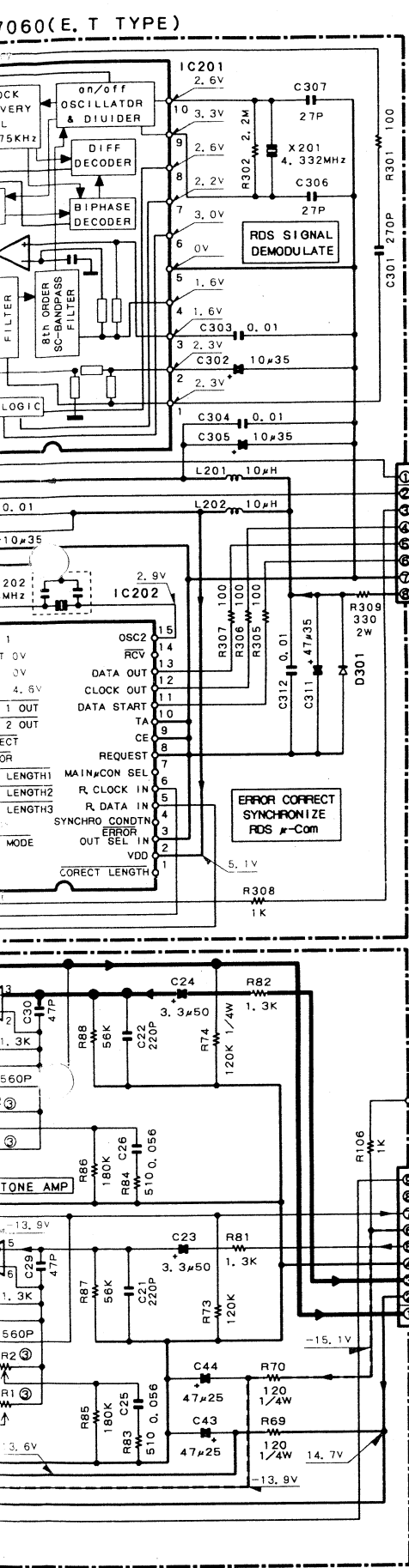


X09-393



DESTINATION		KR-V8060				KR-V7060					
		K, P, R 0-10	M 0-21	X 0-71	Y 2-91	K, P, R 0-11	M 0-22	E 2-71	T 0-51	Y 2-92	
F1	TA250V	T4A L250V				TA250V		T4A L250V			
CN10, 11	J13-0041-05	J13-0075-05				J13-0041-05		J13-0075-05			
F2	NO	T4AL250V	NO	T4AL250V	NO	T4AL250V	NO	NO	NO	T4AL250V	
CN12, 13	NO	YES	NO	YES	NO	YES	NO	NO	NO	YES	
F3	W222	NO	NO	W222	W222	YES	T2, 5AL250V	W222	NO		
CN14, 15	NO				NO		NO				
J10, R311	YES	NO				YES		NO			
J11	E03-0148-05	E03-0149-05	NO	E03-0149-05	E03-0148-05	E03-0149-05		NO	E03-0149-05		
W220	YES	NO	YES	NO	YES	NO	YES	YES	NO	YES	
W221	YES	NO				YES		NO			





X14-387

DESTINATION	KR-V8060				KR-V7060			
	K, P, R	M	X	Y	K, P, R	M	X	Y
Ref. NO.	0-10	0-21	0-71	2-91	0-11	0-22	2-71	0-51
R28, 29	NO	YES	NO	NO	YES	NO	YES	NO
R54-58	NO	YES	NO	NO	YES	NO	YES	NO
R59	NO	YES	NO	NO	YES	NO	YES	NO
R60, 61, 105	NO	YES	NO	NO	YES	NO	YES	NO
R101	NO	YES	NO	NO	YES	NO	YES	NO
D32, 44, 45, 47	YES	NO	NO	NO	YES	NO	YES	NO
D33	NO	YES	NO	NO	YES	NO	YES	NO
D34	NO	YES	NO	NO	YES	NO	YES	NO
D35	NO	YES	NO	NO	YES	NO	YES	NO
D36	NO	YES	NO	NO	YES	NO	YES	NO
S36-38	NO	YES	NO	NO	YES	NO	YES	NO
WH4	YES	NO	NO	NO	YES	NO	YES	NO
Q3	NO	YES	NO	NO	YES	NO	YES	NO
Q4	YES	NO	NO	NO	YES	NO	YES	NO
IC1	#PD78043GF-073				#PD78043GF-075			

X07-280

DESTINATION	KR-V8060				KR-V7060			
	K, P, R	M	X	Y	K, P, R	M	X	Y
Ref. NO.	0-10	0-21	0-71	2-91	0-11	0-22	2-71	0-51
F4, 5	NO	YES	NO	NO	YES	NO	YES	NO
F6, 7	UL 1, 6A/250V	UL 1, 6A/250V	SEMKO T1, 6A/250V	SEMKO T1, 6A/250V	UL 1, 6A/250V	UL 1, 6A/250V	SEMKO T1, 6A/250V	SEMKO T1, 6A/250V
C110, 111	0, 01				0, 01			
C112, 113	0, 01 500V				0, 01 500V			
C118	NO				YES			
CN7-10	NO				YES			
WH4	NO				YES			
WH15, 194	YES				YES			

X09-393

IC201	IC202	IC203
:TDA7330B	:LC6543H-4600	:NJM2279D

D106, 107 :HSS104 or 111-114 1SS133
D100, 101 :HSS104A or 1SS131
D115 :RD2, 7ES(B2) or HZS2, 7N(B2)
D108 :RD6, 2ES(B2) or HZS6, 2N(B2)
D109, 110 :RD5, 1ES(B2) or HZS5, 1N(B2)

KR-V7060 (T TYPE)

(X09-)(G/10)

(K, P, E, X TYPE)

(X07-)(B/4)

(M, Y TYPE)

AC120V 60Hz (K, P TYPE)
AC110-120V/220-240V 50Hz/60Hz (Y, M TYPE)
AC240V - 50Hz (X, T TYPE)
AC230V - 50Hz (E TYPE)

SIGNAL LINE
GND LINE
+B LINE
-B LINE

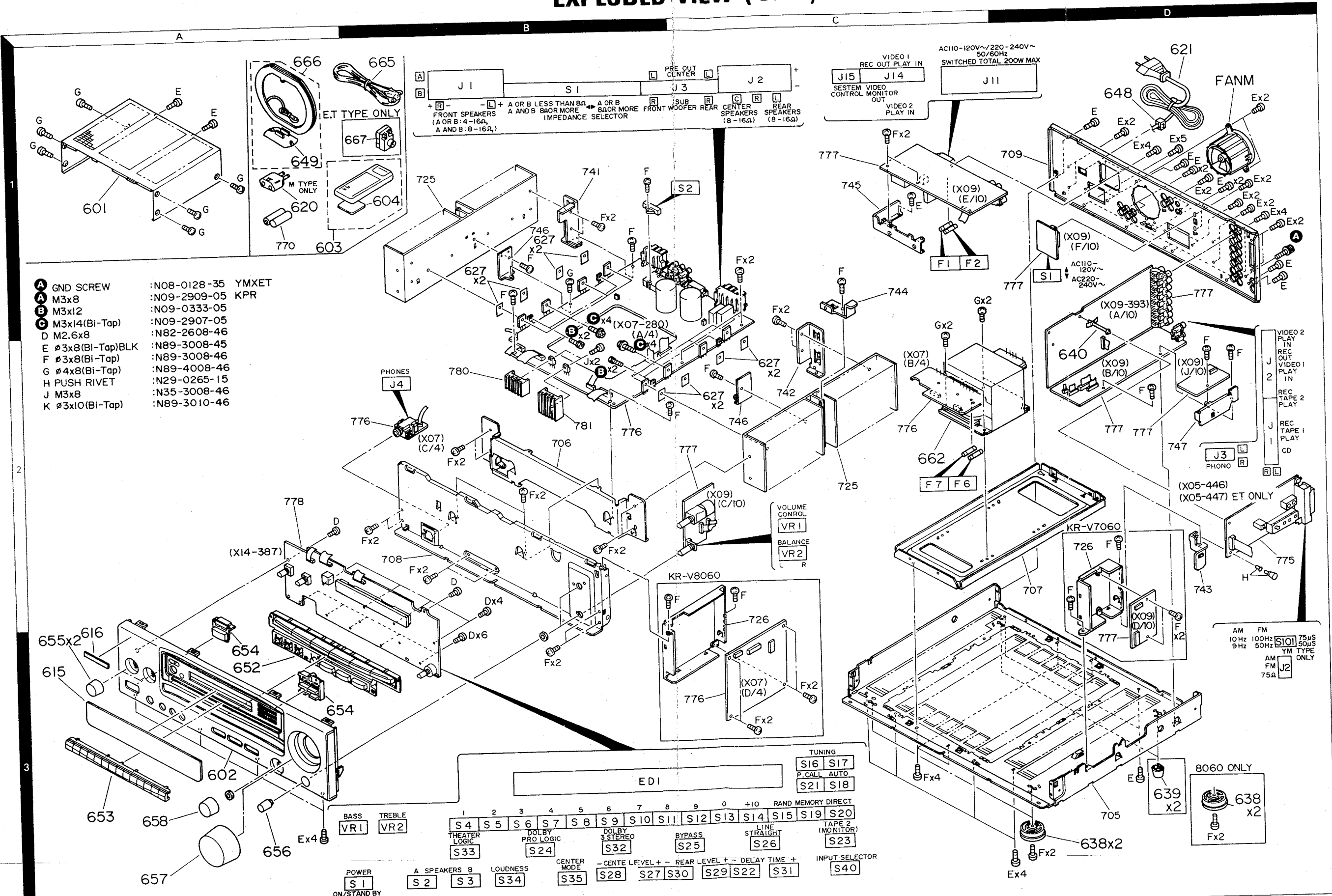
DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U.geringfügig.

CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list) Δ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

KR-V7060/8060 EXPLODED VIEW (UNIT)



* New Parts

Parts without Parts No. are not supplied.
Les articles non mentionnés dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

No.5

Ref. No. 参照番号	Address 位置	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕	Re- marks 備考
Q11		2SD863(E,F)	TRANSISTOR		
Q102		2SA1037K	TRANSISTOR		
Q104		2SA1037K	TRANSISTOR		
Q107,108		2SC2412K	TRANSISTOR		
Q109,110		2SC2412K	TRANSISTOR		
Q111		2SA1037K	TRANSISTOR		
DT1		W02-1167-05	FM FRONT-END ASSY		
TUNER UNIT(X05-4472-72) : E,T					
C1 ,2		CK73FB1H103K	CHIP C		
C4		CE04LW1C470M	ELECTR0		
C5		CK73FB1H223K	CHIP C		
C6		CK73FB1E473K	CHIP C		
C7		CE04LW1H3R3M	ELECTR0		
C8		CK73FB1H682K	CHIP C		
C9		CK73FB1H103K	CHIP C		
C10		CC73FSL1H330J	CHIP C		
C11		CE04LW1V100M	ELECTR0		
C12		CE04LW1H010M	ELECTR0		
C13		CE04LW1H333M	ELECTR0		
C14		CK73FB1H103K	CHIP C		
C15		CK73FB1H103K	CHIP C		
C16		C91-0769-05	CERAMIC		
C17		CK73FB1H223K	CHIP C		
C21 ,22		CK73FB1H682K	CHIP C		
C23		CE04LW1V100M	ELECTR0		
C25		CE04LW1V100M	ELECTR0		
C27		CE04LW1V100M	ELECTR0		
C28		CK73FB1E473K	CHIP C		
C31		CE04LW1A470M	ELECTR0		
C32		CK73FB1H103K	CHIP C		
C33		CC73FCH1H270J	CHIP C		
C34		CK73FCH1H220J	CHIP C		
C35 -38		CK73FB1H471K	CHIP C		
C39		CE04LW1C470M	ELECTR0		
C40		CQ92FM1H223J	MYLAR		
C41		CE04HM1H2R2M	NP-ELEC		
C42 ,43		CK73FB1H103K	CHIP C		
C45 ,46		CE04LW1V100M	ELECTR0		
C47 ,48		CE04LW1H081M	ELECTR0		
C50		C91-0769-05	CERAMIC		
C51		CE04LW1H010M	ELECTR0		
C52		CE04LW1C470M	ELECTR0		
C56		CC73FCH1H220J	CHIP C		
C58 ,59		CK73FB1H472K	CHIP C		
C65		CE04LW1H010M	ELECTR0		
C66		C91-0769-05	CERAMIC		
C72		CE04LW1C470M	ELECTR0		
C107		CK73FB1E473K	CHIP C		
C121,122		CE04LW1C470M	ELECTR0		
C123		CE04LW1H081M	CHIP C		
C172		CC73FSL1H330J	CHIP C		
C173-175		CK73FB1H102K	CHIP C		
C182		CC73FSL1H150J	CHIP C		

L:Scandinavia
Y:PW(Far East, Hawaii)
Y:AFES(Europe)
K:USA
T:England
X:Australia
P:Canada
E:Europe
M:Other Areas
R:Mexico
G:Germany
7:KR-V7060
8:KR-V8060
△ indicates safety critical components

* New Parts

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No.6

Ref. No. 参照番号	Address 位置	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕	Re- marks 備考
J1		E20-0321-05	LOCK TERMINAL BOARD		
J2	3D	F10-0921-14	SHIELDING PLATE		
CF1 ,2		L72-0536-05	CERAMIC FILTER		
L1 ,2		L40-1091-17	SMALL FIXED INDUCTOR(10H)		
L3		L30-0496-05	FM IFT		
L4		L30-0497-05	FM IFT		
L5		L79-0125-05	LC FILTER		
L7		L30-0467-05	AM IFT		
L8 ,9		L79-0790-05	LC FILTER		
L10		L40-1091-17	SMALL FIXED INDUCTOR(10H)		
L103		L39-1309-05	COMBINATION COIL		
L106		L40-1091-17	SMALL FIXED INDUCTOR(10H)		
X1		L77-1122-05	CRYSTAL RESONATOR(7.2MHZ)		
X2		L78-0295-05	RESONATOR (19KHZ)		
R31		RS14W83D221J	EL-PROOF RS		
R32		R014NR2E470J	RD		
R41		R014NR2E470J	RD		
R127,128		R014NR2E101J	RD		
VR1		R12-3686-05	TRIMMING POT.(22K)		
VR2		R12-3685-05	TRIMMING POT.(10K)		
VR3		R12-1619-05	TRIMMING POT.(4.7K)		
W100-103		R92-0670-05	CHIP R		
W200-211		R92-0679-05	CHIP R		
D3		HZ55-1N(82)	ZENER DIODE		
D3		RD5-1ES(82)	ZENER DIODE		
D4		HZ53-3N(82)	ZENER DIODE		
D4		RD3-3ES(82)	ZENER DIODE		
D5		HSS104	DIODE		
D5		1SS133	DIODE		
D11		HZ510N(B)	ZENER DIODE		
D11		RD10ES(B)	ZENER DIODE		
D111,112		HSS104	DIODE		
D111,112		1SS133	DIODE		
D117,118		1SS248	DIODE		
D121		MA110	DIODE		
D125		LA1851N	IC(VCA, FM TUNER)		
IC1		LC7218	IC(PLL SYNTHESIZER)		
IC2		NJW4565D	IC(OP AMP X2)		
IC3		M5223P	IC(OP AMP X2)		
Q1		2SC2214(R,0)	TRANSISTOR		
Q1		2SC1845(F,E)	TRANSISTOR		
Q2		2SC2412K	TRANSISTOR		
Q3 ,4		2SA1037K	TRANSISTOR		
Q5		2SC2412K	TRANSISTOR		
Q7 ,8		2SA1037K	TRANSISTOR		
Q9		2SC2412K	TRANSISTOR		
Q10		2SC2412K	TRANSISTOR		
Q11		2SD863(E,F)	TRANSISTOR		
Q102		2SA1037K	TRANSISTOR		
Q109,110		2SC2412K	TRANSISTOR		
Q111		2SA1037K	TRANSISTOR		
DT1		W02-1166-15	FM FRONT-END ASSY		

L:Scandinavia
Y:PW(Far East, Hawaii)
Y:AFES(Europe)
K:USA
T:England
X:Australia
P:Canada
E:Europe
M:Other Areas
R:Mexico
G:Germany
7:KR-V7060
8:KR-V8060
△ indicates safety critical components

KR-V7060/8060

PARTS LIST

* New Parts
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No.12

Ref. No. 参照番号	Address 位置	Parts No. 部品番号	Description 部品名 / 規格	Re- marks 備考
C151,152		CE04LW1H010M	ELECTR0	50WV
C153,154		CC45FSL1H221J	CERAMIC	220PF
C155,156		CC45FSL1H101J	CERAMIC	100PF
C159,160		CE04LW1A101M	ELECTR0	10WV
C161,162		CC45FSL1H100D	CERAMIC	100PF
C163,164		CE04LW2A010M	ELECTR0	100WV
C165,166		CC45FSL1H070C	CERAMIC	70PF
C167,168		CC45FSL1H070C	CERAMIC	70PF
C169,170		CC45FSL2H350J	CERAMIC	35PF
C171,172		CE04LW1A470M	ELECTR0	47UF
C173		CE04LW1C220M	ELECTR0	22UF
C181,182		CE04LW1H010M	ELECTR0	50WV
C183,184		CC45FSL1H221J	CERAMIC	220PF
C185,186		CC45FSL1H101J	CERAMIC	100PF
C189,190		CE04LW1A470M	ELECTR0	47UF
C191,192		CC45FSL1H480J	CERAMIC	48PF
C193,194		CC45FSL1H221J	CERAMIC	220PF
C195,196		CC45FSL1H070C	CERAMIC	70PF
C197,198		CC45FSL2H480J	CERAMIC	48PF
C200		CE04LW1C220M	ELECTR0	22UF
C201,202		CE04LW1V100M	ELECTR0	10UF
C203,204		C992FM1H33J	MYLAR	33UF
C205		CE04LW1C101M	ELECTR0	10UF
C207		CC45FF1H103Z	CERAMIC	0.010UF
C208,209		CC45FF1H473Z	CERAMIC	0.047UF
C210,213		C91-0751-05	CERAMIC	330PF
C220,222		CE04LW1V487M	ELECTR0	47UF
C223		C90-3247-05	MF	270PF
C301		CE04LW1V100M	ELECTR0	10UF
C302		CE04LW1V100M	ELECTR0	10UF
C303,304		CC45FF1H103Z	CERAMIC	0.010UF
C305,306		CE04LW1V100M	ELECTR0	10UF
C306,307		CC45FF1H270J	CERAMIC	27PF
C308		CE04LW1V100M	ELECTR0	10UF
C309,310		CC45FF1H103Z	CERAMIC	0.010UF
C311		CE04LW1V470M	ELECTR0	47UF
C312		CC45FF1H103Z	CERAMIC	0.010UF
C321		C91-1488-05	MF	6800PF
C322		CC45FF1H103Z	CERAMIC	0.010UF
C323		CE04LW1E331M	ELECTR0	330UF
C324		CE04LW1V487M	ELECTR0	47UF
C325,327		CE04LW1A470M	ELECTR0	47UF
C328		CE04LW03471M	CERAMIC	0.010UF
C329,330		CC45FF1H103Z	CERAMIC	0.010UF
C331,332		CE04LW1V100M	ELECTR0	10UF
C333,334		CC45FSL1H470J	CERAMIC	47PF
C335,336		CC45FSL1H221J	CERAMIC	220PF
C337		CC45FSL1H221J	CERAMIC	220PF
C338		CC45FF1H103Z	CERAMIC	0.010UF
C339		CC45FSL1H221J	CERAMIC	220PF
C340		CC45FF1H103Z	CERAMIC	0.010UF
J1,2	20	B63-0067-15	PHONE JACK	
J3	20	B63-0068-15	PHONE JACK	
J11	1C	B03-0148-05	AC OUTLET	

7:KR-V7060
8:KR-V8060
R:Mexico
G:Germany
Y:Korea
X:Australia
M:Other Areas
△ indicates safety critical components

* New Parts
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Teile ohne Parts No. werden nicht geliefert.

No.11

Ref. No. 参照番号	Address 位置	Parts No. 部品番号	Description 部品名 / 規格	Re- marks 備考
C50		CE04LW1H2R2M	ELECTR0	50WV
C51		CE04LW1V100M	ELECTR0	35WV
C53		CE04LW1V100M	ELECTR0	35WV
C55		CF92FV1H474J	MF	0.47UF
C56		CF92FV1H824J	MF	0.82UF
C57		CF92FV1H474J	MF	0.47UF
C58,59		CE04LW1A470M	ELECTR0	47UF
C60		C992FM1H104J	MYLAR	10UF
C61		CE04LW1H487M	ELECTR0	48PF
C62		CE04LW1H487M	ELECTR0	48PF
C63		CE04LW1H487M	ELECTR0	48PF
C64		CE04LW1H487M	ELECTR0	48PF
C65		CE04LW1H487M	ELECTR0	48PF
C66,67		CF92FV1H154J	MF	0.15UF
C68		CE04LW1H3R3M	ELECTR0	3.3UF
C69		CF92FV1H154J	MF	0.15UF
C70		CE04LW1H487M	ELECTR0	48PF
C71		CE04LW1H487M	ELECTR0	48PF
C72		CE04LW1A470M	ELECTR0	47UF
C73		CE04LW1H487M	ELECTR0	48PF
C74,75		C992FM1H104J	MYLAR	10UF
C76,77		CE04LW1H010M	ELECTR0	1.0UF
C78		ELECTR0	10WV	
C79-82		CE04LW1A221M	ELECTR0	220UF
C83		CE04LW1A221M	ELECTR0	220UF
C84		C992FM1H473J	MYLAR	47UF
C85		C992FM1H223J	MYLAR	22UF
C86		CE04LW1C470M	ELECTR0	47UF
C87		CE04LW1A101M	ELECTR0	100PF
C89		CC45FF1H102K	CERAMIC	1000PF
C91		CC45FF1H223Z	CERAMIC	0.022UF
C92		CE04LW1C470M	ELECTR0	47UF
C93		C992FM1H104J	MYLAR	0.10UF
C95		C91-0757-05	CERAMIC	1000PF
C96		CF92FV1H681J	MF	680PF
C97,98		CE04LW1V100M	ELECTR0	10UF
C99,100		CE04LW1H010M	ELECTR0	1.0UF
C101,102		C91-0749-05	CERAMIC	220PF
C103,104		C91-0729-05	CERAMIC	22PF
C105,106		C91-0745-05	CERAMIC	100PF
C107,108		CE04LW1V100M	ELECTR0	10UF
C109,110		CE04LW1H010M	ELECTR0	1.0UF
C119		CE04LW1A101M	ELECTR0	100PF
C120		C91-0758-05	CERAMIC	680PF
C121,122		C91-0735-05	CERAMIC	39PF
C123,124		CE04LW1V100M	ELECTR0	10UF
C125,126		C91-0744-05	CERAMIC	220PF
C127,128		CE04LW1A101M	ELECTR0	100PF
C129,130		C91-0757-05	CERAMIC	1000PF
C131,132		C992FM1H123J	MYLAR	0.012UF
C133,134		CE04LW1H332J	MYLAR	3300PF
C135,136		CE04LW1V487M	ELECTR0	47UF
C137,138		C91-0745-05	CERAMIC	100PF
C139		C993HP2A103J	MYLAR	0.010UF

7:KR-V7060
8:KR-V8060
R:Mexico
G:Germany
Y:Korea
X:Australia
M:Other Areas
△ indicates safety critical components

KR-V7060/V8060

SPECIFICATIONS

U.S.A., Mexico and Canada (KR-V7060/V8060)

Audio section

Rated power output at the STEREO operation

100 watts per channel minimum RMS, both channels driven at 8 Ω , from 20 Hz to 20,000 Hz with no more than 0.06% total harmonic distortions. (FTC)

Power output at the Surround operation

Front (1 kHz, 0.9% T.H.D. at 8 Ω) 100 W + 100 W
Center (1 kHz, 0.9% T.H.D. at 8 Ω) 100 W
Rear (1 kHz, 0.9% T.H.D. at 8 Ω) 25 W + 25 W

Total harmonic distortion (1 kHz, 8 Ω) 0.03% at 50 W
Signal to noise ratio (IHF A)

PHONO (MM) 76 dB
CD, TAPE, VIDEO 100 dB

Input sensitivity / impedance

PHONO (MM) 2.5 mV / 47 k Ω
CD, TAPE, VIDEO 200 mV / 47 k Ω

Tone controls

BASS ± 10 dB (at 100 Hz)
TREBLE ± 10 dB (at 10 kHz)

Loudness control at - 30 dB VOLUME level

..... + 8 dB (100 Hz)

Video section

VIDEO inputs / outputs(Composite) 1 Vp-p / 75 Ω

FM Tuner section

Tuning frequency range 87.5 MHz~108 MHz

Usable sensitivity (IHF) 13.2 dBf (1.2 μ V at 75 Ω)

50 dB quieting sensitivity

STEREO 41.2 dBf (3.2 μ V at 75 Ω)

Total harmonic distortion at 1 kHz

MONO 0.6%

STEREO 0.7%

Signal to noise ratio at 65 dBf (IHF)

MONO 75 dB

STEREO 68 dB

Selectivity (IHF ± 400 kHz) 50 dB

Stereo separation (IHF at 1 kHz) 40 dB

Frequency response 30 Hz~15 kHz, +0.5 dB, - 3.0 dB

AM Tuner section

Tuning frequency range 530 kHz~1,700 kHz

Usable sensitivity 12 μ V / (500 μ V / m)

Total harmonic distortion 0.7 %

Signal to noise ratio 48 dB

Selectivity 30 dB

General

Power consumption 3.5 A

AC outlet

SWITCHED 2: (total 200 W, 1.6 A max.)

Dimensions W: 440 mm (17-5/16")

H: 143 mm (5-5/8")

D: 401 mm (15-13/16")

Weight (net) 12 kg (26.5 lb)

Other countries (KR-V7060/V8060)

Audio section

Rated power output at the STEREO operation

(EIAJ) 1 kHz, 10 % THD at 8 Ω 135 W + 135 W

(IHF '66) from 20 Hz to 20 kHz,

0.06% T.H.D., at 8 Ω 100 W + 100 W

Power output at the Surround operation

Front (1 kHz, 0.9% T.H.D. at 8 Ω) 100 W + 100 W

Center (1 kHz, 0.9% T.H.D. at 8 Ω) 100 W

Rear (1 kHz, 0.9% T.H.D. at 8 Ω) 25 W + 25 W

Total harmonic distortion (1 kHz, 8 Ω) 0.03% at 50 W

Signal to noise ratio (IHF'66)

PHONO (MM) 76 dB

CD, TAPE, VIDEO 100 dB

Input sensitivity / impedance

PHONO (MM) 2.5 mV / 47 k Ω

CD, TAPE, VIDEO 200 mV / 47k Ω

Tone controls

BASS ± 10 dB (at 100 Hz)

TREBLE ± 10 dB (at 10 kHz)

Loudness control at - 30 dB VOLUME level

..... + 8 dB (100 Hz)

Video section

VIDEO inputs / outputs(Composite) 1 Vp-p / 75 Ω

FM Tuner section

Tuning frequency range 87.5 MHz~108 MHz

Usable sensitivity (IHF) 13.2 dBf (1.2 μ V at 75 Ω)

50 dB quieting sensitivity

STEREO 41.2 dBf (3.2 μ V at 75 Ω)

Total harmonic distortion at 1 kHz

MONO 0.6 %

STEREO 0.7 %

Signal to noise ratio at 65 dBf (IHF)

MONO 75 dB

STEREO 68 dB

Selectivity (IHF ± 400 kHz) 50 dB

Stereo separation (IHF at 1 kHz) 40 dB

Frequency response 30 Hz ~ 15 kHz, + 0.5 dB, - 3.0 dB

AM Tuner section

Tuning frequency range

9 kHz 531 kHz ~ 1,602 kHz

10 kHz 530 kHz ~ 1,610 kHz

Usable sensitivity 12 μ V / (500 μ V / m)

Total harmonic distortion 0.7 %

Signal to noise ratio 48 dB

Selectivity 30 dB

General

Power consumption 330 W

AC outlet

SWITCHED 2: (total 200 W max.)

(Except for Australia)

Dimensions W: 440 mm

H: 143 mm

D: 401 mm

Weight (net) 12 kg

Note : KENWOOD follows a policy of continuous advancements in development. For this specifications may be changed without notice.

KR-V7060/V8060

ACCESSORIES

ACCESSORIES

FM indoor antenna(1)
(T90-0175-05)



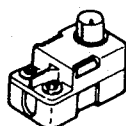
Batteries (R6/AA)(2)



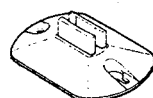
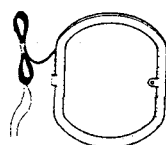
AC plug adaptor(1)
(E30-0115-05) : M



Antenna adaptor(75Ω/300Ω)
..... (1)
(T90-0185-05) : E,T



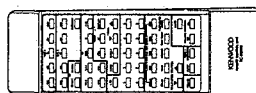
AM loop antenna assy.....(1)
(T90-0195-05)



Loop antenna stand
(J19-3645-05)

Remote control unit(1)

[KR-V7060]
A70-0962-15 : K,P,Y,M,R
A70-0963-05 : E,T
BATTERY COVER:
A09-0146-08



[KR-V8060]
A70-0961-05
BATTERY COVER :
A09-0169-08

